

#### 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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, September 27, 2019 WELL WORK PERMIT Horizontal 6A / New Drill

TRIAD HUNTER, LLC 125 PUTNAM ST MARIETTA, OH 45750

Re: Permit approval for WELLS MECKLEY N 3M 47-095-02634-00-00

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:

WELL'S MECKLEY N 3M VELMA L. WELLS

Farm Name:

47-095-02634-00-00

U.S. WELL NUMBER: Horizontal 6A

Date Issued: 9/27/2019

New Drill

API	Number:	

### 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**

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

API Number:	

### **PERMIT CONDITIONS**

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

### API NO. 47-47 09 5 02634

OPERATOR WELL NO. 3M
Well Pad Name: Wells Meckley

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

1) Well Opera	tor: Triad Hunte	er, LLC	494494833	Tyler	Lincoln	Paden City
			Operator ID	County	District	Quadrangle
2) Operator's	Well Number: 3N	Л	Well P	ad Name: W	ells Meckley	
3) Farm Name	/Surface Owner:	Wells Meckle	Public R	oad Access:	State Route	18
4) Elevation, c	current ground:	958'	Elevation, propose	d post-constr	uction: 958'	
5) Well Type	(a) Gas x	Oil	X Un	derground St	orage	
	Other					
	(b)If Gas Sha	allow X	Deep			0.20
	Но	rizontal				CJCB.
	d: Yes or No Ye			_		6/25/2019
			nticipated Thickness CK, 3,000PSI BHP	and Expecte	d Pressure(s):	
8) Proposed To	otal Vertical Dept	th: 6,260' TV	'D			
	at Total Vertical I	The state of the s	ellus Shale			
10) Proposed	Total Measured D	epth: 6,260	' MD			
11) Proposed 1	Horizontal Leg Le	ength: 0'				
12) Approxim	ate Fresh Water S	Strata Depths:	250'			
13) Method to	Determine Fresh	Water Depths	Examine local w	vater wells		
14) Approxim	ate Saltwater Dep	oths: 1100'-20	000'			
15) Approxim	ate Coal Seam De	epths: Multipl	e, thin, non-comme	ercial seams	1,300' - 1,80	0'
16) Approxim	ate Depth to Poss	ible Void (coa	ll mine, karst, other)	None know	vn	
	osed well location ving or adjacent to				No x	
(a) If Yes, pr	rovide Mine Info:	Name:				
		Depth:				
		Seam:		SEIVED GRE		
		Owner:				
				11 00		
			7/	N Department o	etton	
			N	N Department of		
			Env	KOI		Page 1 of 3

API N	0 4	7_ 95	)

OPERATOR WELL NO. 3M
Well Pad Name: Wells Meckley

#### 18)

#### CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	A-53B	90 ppf	100'	100'	Cement to surface
Fresh Water	13 3/8"	New	J-55	54.5 ppf	350'	350'	Cement to Surface
Coal							
Intermediate	9 5/8"	New	J-55	36 ppf	2,850'	2,850'	Cement to Surface
Production	5 1/2"	New	P-110	20 ppf	6,260'	6,260'	Cement to Surface
Tubing							
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

96/25/2019

Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tubing							
Production	5 1/2"	8 3/4"	.361'	16,800	9000	50/50 POZ/ Class H	1.27 cu.ft./sk; 2.58 cu.ft./sk
Intermediate	9 5/8"	12 1/4"	.352"	3520	1750	Light Cement/ Class A	1.9 cu.ft./sk; 1.7 cu.ft./sk
Coal							
Fresh Water	13 3/8"	17 1/2"	.380"	2730	750	Standard Class A	1.2 cu.ft./sk
Conductor	20"	24"	.375"	1380	0	Standard Class A	1.18 cu.ft./sk
ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)

#### **PACKERS**

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

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API NO. 47- 95 OPERATOR WELL NO. 3M
Well Pad Name: Wells Meckley

SEE ATTACHMENT: I-B  20) Describe fracturing/stimulating methods in detail, including anticipate	96B 6/25/2019
20) Describe fracturing/stimulating methods in detail, including anticipate	JeB 6/25/2019
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20) Describe fracturing/stimulating methods in detail, including anticipate	6/25/2019
20) Describe fracturing/stimulating methods in detail, including anticipate	6/0/01
20) Describe fracturing/stimulating methods in detail, including anticipate	
o) become anothing community memory in terming uniterpart	ed max pressure and max rate:
SEE ATTACHMENT: II-B	ed max pressure and max rate.
SEL ATTACHIVIENT. II-B	
	1 acres
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (	acres): Tacres
22) Area to be disturbed for well pad only, less access road (acres): 1 ac	cres
23) Describe centralizer placement for each casing string:	
SEE ATTACHMENT: III-B	
SEE ATTACHIMENT. III-B	
24) Describe all cement additives associated with each cement type:	
SEE ATTACHMENT: IV-B	
25) Proposed borehole conditioning procedures:	
SEE ATTACHMENT: V-B	
DECENED	Ga <sup>s</sup>
Office of Oil and	2,0
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*Note: Attach additional sheets as needed.  WV Depar  Environment	ment of
*Note: Attach additional sheets as needed.	al Profect

#### ATTACHMENT: I-B

#### #19 Proposed Well Work:

#### Drill and complete a new vertical Marcellus Shale Well.

- 1. Auger a 24" conductor hole to 100 feet; run 20" casing to T.D., cement / grout to surface with Class A cement.
- 2. AIR/SOAP Drill a 17 1/2" intermediate hole to a depth of 350 feet; run 13 3/8" casing to T.D. and cement to surface with Class A cement.
- 3. Fluid Drill a 12 ¼" intermediate hole to a depth of 2,850 feet; run 9 5/8" casing to T.D. and cement back to surface with Class A cement.
- 5. Fluid Drill an 8 1/2" production hole to the projected total measured depth @ 6,260 feet.
- 6. Run quad combo open hole WL logs (Gamma-Ray, Resistivity, Density, Neutron, sonic).
- 7. Run 5.5" casing to TD and cement same.
- 8. Pressure test casing and perforate the Marcellus.
- 9. Perform an injection test on the Marcellus.
- 10. Record pressure for up to 30 days.
- 11. Shut well in until clean out and flow back operations are initiated.

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ATTACHMENT: II-B

#### #20 Fracturing/Stimulation Methods:

Upon the successful cementation of the 5 ½" production casing, completion of the well will be performed as follows:

- 1. Run a GR/CCL/Bond log from TD to surface.
- 2. Pressure test casing and perforate the Marcellus.
- 3. Perform a fracture injection test with a slick water using up to 100 bbls of water. Average treating pressure is expected to range between 6,000psi and 7,000psi and average treating rates are expected to range between 3 bbls and 10 bbls per minute. Upon completion of the stage, pressure will be recorded for up to 30 days.
- 4. Upon completion, solid bridge plugs are set in the casing, above the Marcellus and just below the well head for safety purposes.
- 5. Well is shut-in until clean out and flow back operations are initiated.

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ATTACHMENT: III-B

#### **#23 Centralizer Placement:**

- (20") Surface Casing Between two and four run based on setting depth of casing.
  - Estimate centralizer every 2 joints (estimate 4 centralizers to be ran)
- (13 3/8") 1st Intermediate Casing- Between six and ten run based on setting depth of casing.
  - Estimate centralizer every 5 joints (estimate 10 centralizers to be ran)
- ( 9 5/8") 2<sup>nd</sup> Intermediate Casing Between ten and twenty run based on setting depth of
  casing. Run Bow spring centralizers every other joint beginning on first joint for first 1,000', then
  every second joint to top of cement; then every third joint from there to surface.
  - Estimate (centralizer 1 per 1 for 1<sup>st</sup> 1000', then 1 per 2 to surface)
- (5 1/2") Production Casing:
  - Beginning on joint #5 run one Solid Body Composite Spiral centralizer every third joint.

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#### **#24 Cement Additives:**

ATTACHMENT: IV-B PAGE 1 OF 2

#### A. Surface Cement Job (20" csg.)

- 1. Surface Cement Job (20" csg.)
  - a) Average weight = 15.4 to 15.6 lbs./gal
  - b) Average yield = 1.19 to 1.24 ft<sup>3</sup>/5k
- 2. Common Additives
  - a) ¼ lb./5k Cello Flake

(Lost circulation material)

(Accelerator)

b) 2%-3% Calcium Chloride

\*Note: Gel Sweep is usually pumped ahead of the cement.

Gel Spacer consists of 6% gel w/cello Flake.

B. Intermediate Cement Job ( 13 3/8" csg. & 9 5/8" csg. )

Due to depth, most intermediate casings are cemented in two stages.

- 1. The upper (lead) stage cement job usually consists of CLASS A CEMENT.
  - a) Average weight = 13.1 to 13.5 lbs. /gal.
  - b) Average yield = 1.54 to 1.70 ft<sup>3</sup>/5k.

\*Note: Gel Sweep is usually pumped ahead of the cement.

Gel Spacer consists of 6% gel w/cello Flake.

- 2. The lower (tail) stage usually consists of standard CLASS A CEMENT.
  - a) Average weight = 15.4 to 15.6 lbs./gal
  - b) Average yield = 1.18 to 1.20 ft<sup>3</sup>/5k.

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#### **#24 Cement Additives:**

ATTACHMENT: IV-B PAGE 2 OF 2

#### C. Longstring Cement Job (5 1/2" csg.)

Depending on how far cement is brought back into the intermediate casing, the production casing is usually cemented in two stages and a heavy weighted spacer is pumped ahead of the cement to condition the well bore.

<ol> <li>Weighted Spacer</li> </ol>	Ultra Flush II	50 bbs. @ 13lbs. /gal
a) Barite	@257 lbs. /bbl	(Weighting Material)
b) US-40	2 gals. /bbl	(Surface tension reducer)
c) ss-2	13 lbs. /gal	(Suractant)
2. Weighted Spacer		
a) Barite	@257 lbs. /bbl	(Weighting Material)
b) SS-2	1 lb. /gal	(Surfactant)

c) MPA-170 1 lb. /bbl (Fluid loss additive)
3. Lead Slurry 50:50 POZ/Premium NE-1

a) Average Weight = 13.50 lbs. /gal

b) Average yield =  $1.44 \text{ ft}^3 / /5 \text{k}$ .

#### Common Additives

a) BA - 90	3lbs. /5k	(Bonding Agent)
b) R – 3	.258 bwoc	(Retarder)
c) MPA - 170	1 lb / bbl	(Fluid loss additive)

4. Tail Slurry CLASS H CEMENT

a) Average Weight = 15.2lbs. /gal

b) Average Yield = 1.64 ft<sup>3</sup>/5k

#### Common Additives

.2% bwoc	(Retarder)
.75 % bwoc	(Dispersant)
.35 % bwoc	(Free water removal)
1.25% bwoc	(Bonding Agent)
30lbs. /5k	(Solubility additive)
.58 bwoc	(Extender)
	.75 % bwoc .35 % bwoc 1.25% bwoc 30lbs. /5k

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ATTACHMENT: V-B

#### #25 Borehole Conditioning Procedures:

17 ½" hole — Generally this section of the well is drilled on air with air compressors and boosters. It's imperative through this section of the well to have sufficient air volume and pressure on the borehole during drilling to ensure hole conditions remain clean and unobstructed. If a significant volume of freshwater is encountered during drilling soap is utilized to assist in lifting drill cuttings and freshwater out of the hole. "Red Rock" is a clay-dominant strata that is sensitive to freshwater in this area. Stiff foam is applied to the borehole when freshwater is encountered to prevent the clays from swelling and sloughing into the borehole.

12 1/4" hole - Generally this section of the well is drilled on air with air compressors and boosters. It's imperative through this section of the well to have sufficient air volume and pressure on the borehole during drilling to ensure hole conditions remain clean and unobstructed. If a significant volume of saltwater is encountered during drilling soap is utilized to assist in lifting drill cuttings and freshwater out of the hole.

8 1/2" hole – Generally, this section of the well is drilled on fluid. In an effort to keep borehole conditions in good working order several mechanisms are used to condition the borehole:

- 1. **High Viscosity Sweeps**: Sweeps are mixed and pumped after drilling every 3 joints during the drilling process. Sweeps generally run 20 cp over the active mud system viscosity for 20 bbls.
- 2. Clean-Up Cycle: "Clean-Up Cycles" are utilized every 500' in the lateral section of the well. During this routine conditioning procedure drilling is halted for the amount of time it takes to circulate 2 sweeps to surface. Also, during this process the pipe is continuously rotated and reciprocated at this spot to help circulate out any "cutting beds" lying in the wellbore.
- Short Trips: Short trips are utilized to work out tight spots and cutting beds from the borehole which cause increased torque and drag, and pressure. Two short trips are typically run during the drilling of this section of the wellbore.
- At TOTAL DEPTH: A clean-up cycle and short trip is utilized to condition the wellbore when total depth (TD) has been reached in preparation for running production casing.

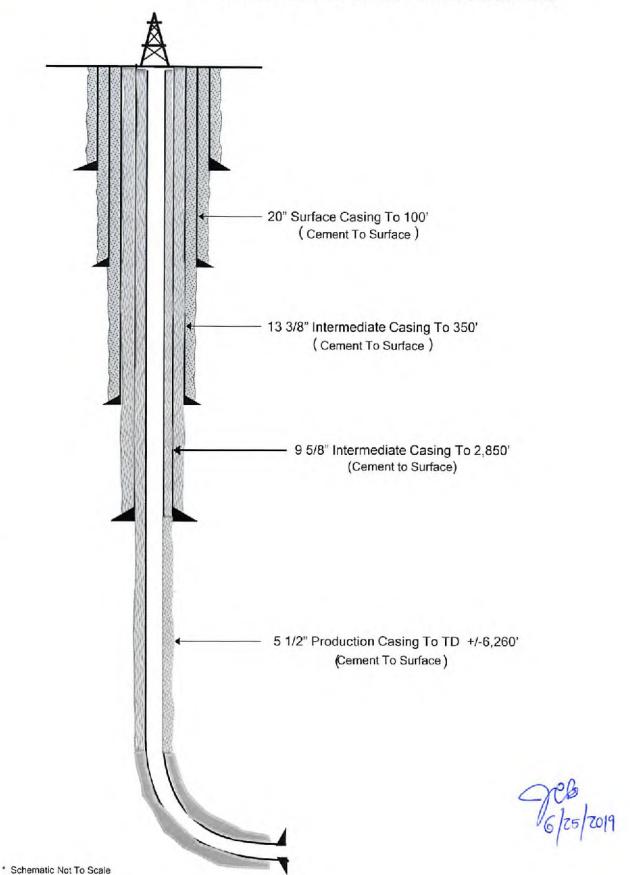
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### Triad Hunter, LLC

### Wells Meckley 3M MARCELLUS SHALE WELLBORE SCHEMATIC\*



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API Number 47 - 95

Operator's Well No. 3M

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Triad Hunter, LLC	OP Code 494494833
Watershed (HUC 10) Pursley Creek Quadrangl	le Paden City
Do you anticipate using more than 5,000 bbls of water to complete the proposed	d well work? Yes ✓ No
Will a pit be used? Yes No V	
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:	OCB,
Land Application Underground Injection ( UIC Permit Number 387 C Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal Other (Explain	
Will closed loop system be used? If so, describe: Yes, cuttings fluids-gases are separated through	a sense of vessels. Cuttings are then solidified in debris boxes and hauled to landfill.
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshw	rater, oil based, etc. Top Hole-Air Drilled, Lateral-Syn Mud
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? See Attachement I-A: Drilling Additives Lie	st
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. La	andfill
-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, SWPU I	D 12-10-45
Permittee shall provide written notice to the Office of Oil and Gas of any load of West Virginia solid waste facility. The notice shall be provided within 24 hours where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the on August I, 2005, by the Office of Oil and Gas of the West Virginia Departme provisions of the permit are enforceable by law. Violations of any term or collaw or regulation can lead to enforcement action.  I certify under penalty of law that I have personally examined and application form and all attachments thereto and that, based on my inquir obtaining the information, I believe that the information is true, accurate, a penalties for submitting false information, including the possibility of fine or in Company Official Signature	ent of Environmental Protection. I understand that the condition of the general permit and/or other applicable am familiar with the information submitted on this ry of those individuals immediately responsible found complete. I am aware that there are significant
Company Official (Typed Name) Mike Horan	
Company Official Title Manager Operations Conventional/Infrastructure	
Company Official Tale	ARIAL &
Subscribed and sworn before me this 304h day of April 1	(SANITA )a
Hamela K Nichalson	Pamela K. Nicholson, Notary Public in and For The State of Ohio Notary Public Commission Expires 8-9-20
My commission expires $8-9-2020$	0,00

Operator's Well No. 3M

	es Disturbed 6.6	Prevegetation pH _	6-7
Lime 2-5 Tons/s	acre or to correct to pH		
Fertilizer type 10-20-20			
Fertilizer amount_500	_lbs/	acre /acre	
Mulch 2	Tons/ac	re	
	Seed	<u>Mixtures</u>	
Temporary		Permane	nt
Seed Type lbs/a	acre	Seed Type	lbs/acre
Common Orchard Grass	s 30%	Same as temporary	
Perennial Rye	35%		
Medium Red Clover	25%		
Common Timothy	10%		
Plan Approved by: Crae	i Demos		
Comments:			
Title: Oil & Gas Inspector		Date: 6   25   2019   RECE	IVED
		Date: 6   c5   ZO 9 RECE Office of O	I√ED il and Gas

# TRIAD HUNTER LLC. Subsidiary Of Montage Resources

125 Putnam Street Marietta, Ohio 45750

#### SITE & SAFETY PLAN

Wells Meckley Tyler County West Virginia

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> > JUL 08 2019

WV Department of Environmental Protection

Approved:

West Virginia DEP

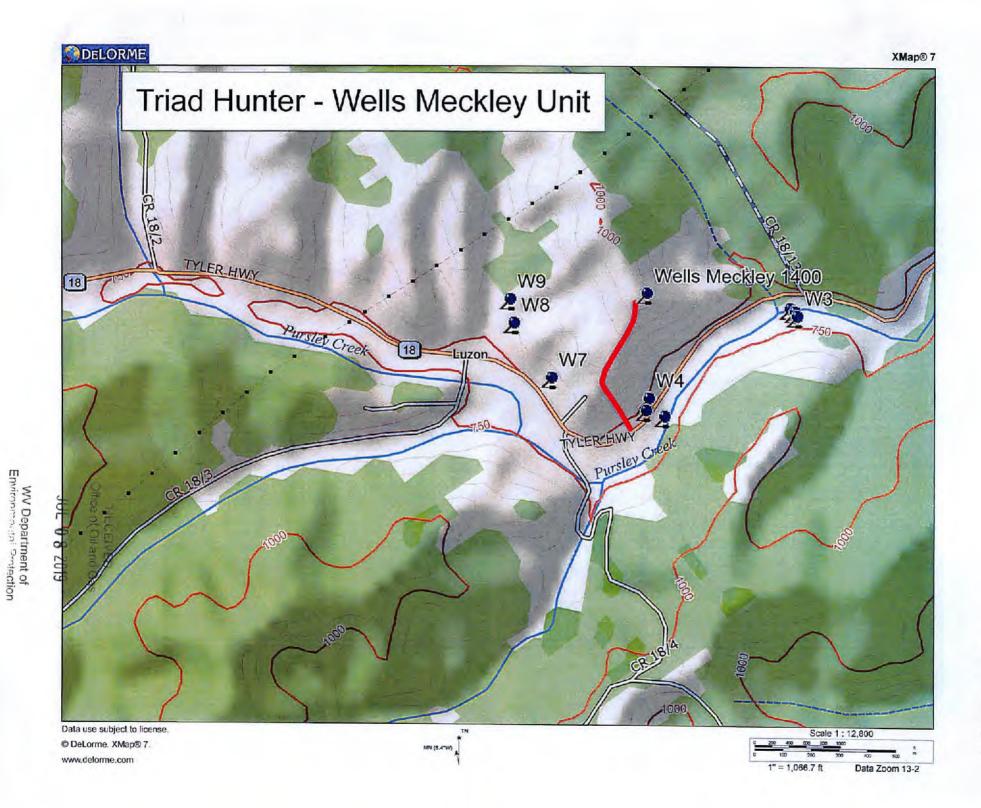
CompuBler Date: 6/25/26/9

Triad Hunter LLC

Mike Horan

Date: 4/30/19

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August 28, 2019

Mr. Wade Stansberry WVDEP Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304 RECEIVED Office of Oil and Gas

AUG 3 0 : 39

WV Department of Environmental Protection

RE: Triad Hunter - Wells Meckley 3M application comments July 16, 2019

Dear Mr. Stansberry,

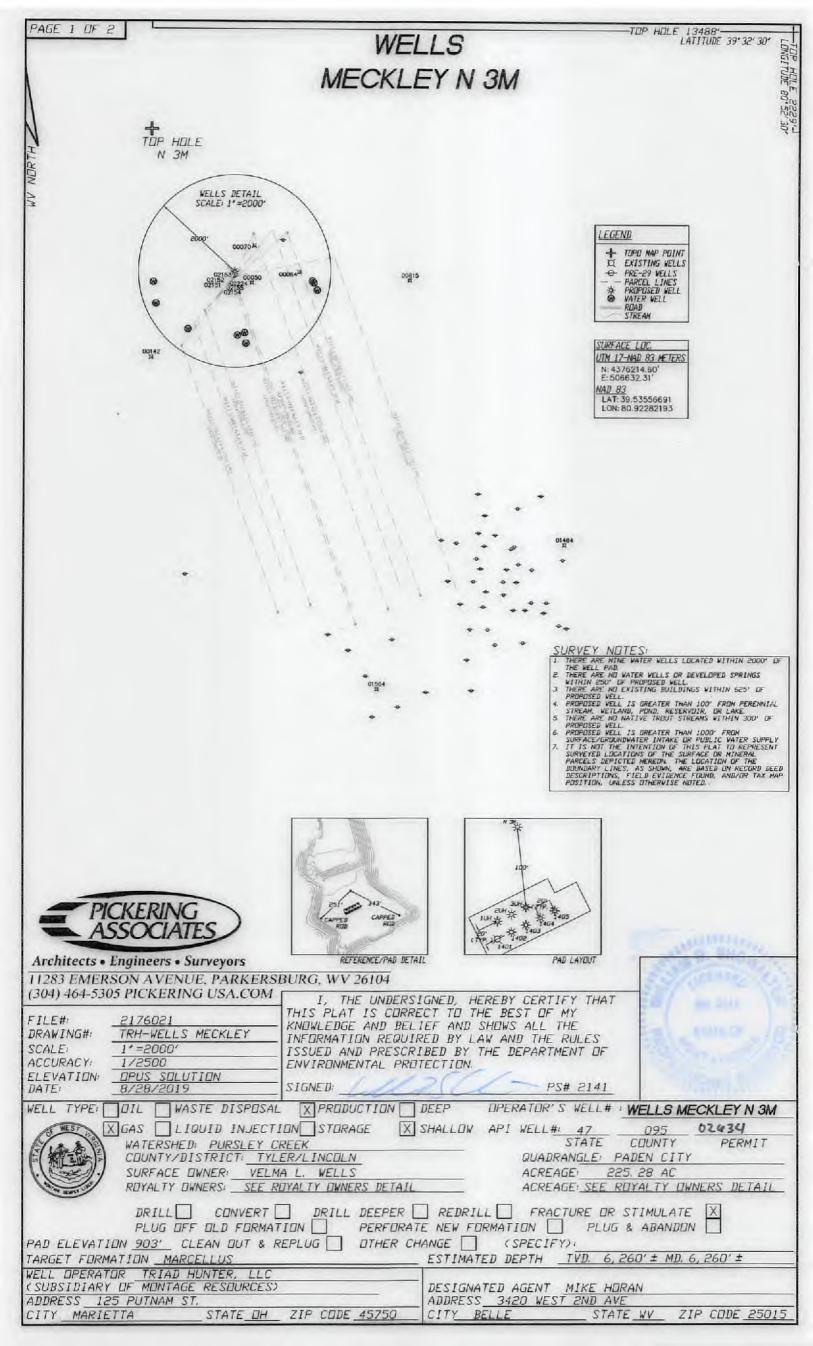
Please see the enclosed revised plat.

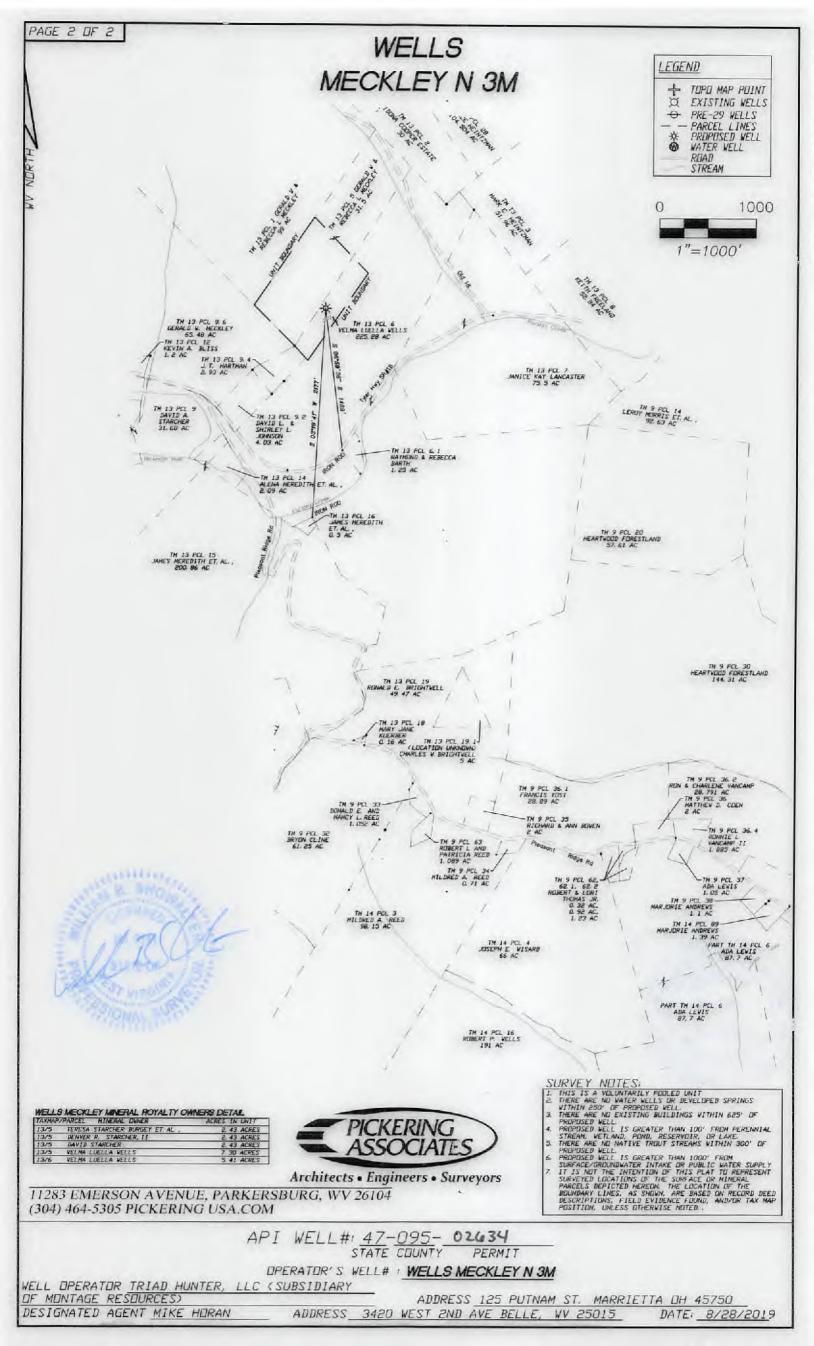
Should you have any questions please call me at 740-760-0558, or email at wharless@mresources.com

Sincerely,

Will Harless

Will Harless Supervisor Regulatory Operations





WW-6A1 (5/13)

Operator'	s Well	No.	ЗМ
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#### 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 Na	ıme	or
Numl	per	

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

Please see attached sheets

#### 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: Triad Hunter, LLC

By: Mike Horan

Office of Oil and Gas

Manager Operations Conventional/Infrastructure

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Page 1 of

# Exhibit "A" MECKLEY - WELLS UNIT OWNERSHIP TABULATION 664.15 ACRES

	O B	С	D	E	F	G	Н	10	1	K	L	М	N
0 0	RECEI Mumber	Lessor	Lessor's Address	Surface owner	Surface Owner's Address	Lessee/Assignee	Lease Date	Lease Recording Data	Map/Parcel Number of Parcel(s) in Unit	Gross Acres in Lease/Parcel	Acres included in Unit	Percent of Unit	Royalty Interest
90°9	G B S S LSE250STA11	TERESA STARCHER BURGEY Gwendolyn L. Starcher	85 Hickman Road Sistersville WV 26175	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 103	4-13-5	195.98	5.250000	2.00015239%	14.000%
3	LSE250STA15	Denver R. Starcher, II	7601 Mistywood Rd. Knoxville, TN 37938	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 55	4-13-5	195.98	5.250000	2.00015239%	14.000%
4	LSE250STA10	David Starcher	37 Hickman Road Sistersville WV 26175 1901 Tyler	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 92	4-13-5	195.98	5.250000	2.00015239%	14.000%
5	LSE250WEL17	Velma Luella Wells	Highway Sistersville WV 26175	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	11/7/2011	Book 392 Page 459	4-13-5	256.8	15.750000	6.00045718%	17.000%
6	LSE250STA11	TERESA STARCHER BURGEY Gwendolyn L. Starcher	85 Hickman Road Sistersville WV 26175	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 103	4-13-9.6	195.98	0.950000	0.36193234%	14.000%
7	LSE250STA15	Denver R. Starcher, II	7601 Mistywood Rd. Knoxville, TN 37938	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 55	4-13-9.6	195.98	0.950000	0.36193234%	14.000%
8	LSE250STA10	David Starcher	37 Hickman Road Sistersville WV 26175	MECKLEY GERALD W & MECKLEY REBECCA L	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	6/14/2011	Book 383 Page 92	4-13-9.6	195.98	0.950000	0.36193234%	14.000%
9	LSE250WEL17	Velma Luella Wells	1901 Tyler Highway Sistersville WV 26175	Velma Luella Wells	1901 Tyler Highway Sistersville WV 26175	Triad Hunter, LLC	11/7/2011	Book 392 Page 459	4-13-6	256.8	225.280000	85.82749162%	17.000%
10	LSE250MEC1	Gerald W. & Rebecca L. Meckley	4625 TYLER HWY , SISTERSVILLE , WV 26175	Gerald W. & Rebecca L. Meckley	1701 TYLER HWY , SISTERSVILLE , WV 26175	Triad Hunter, LLC	12/17/2012	Book 409 Page 514	4-13-9.6	195.98	2.850000	1.08579701%	18.000%
11		Royalty TOTALS		44							262,480000	1.0000000000	



June 13, 2019

WVDEP Office of Oil and Gas 601 57<sup>th</sup> Street, SE Charleston, WV 25304

RE: Wells Meckley

To whom it may concern,

This letter serves you and the Office of Oil and Gas that Triad Hunter, LLC has the minerals leased for the development of the Marcellus Shale on the Wells-Meckley acreage located in the Lincoln District, Tyler County. Wells Meckley will have portions of the horizontal laterals crossing State Route 18 and County Road 18/4. Triad Hunter, LLC also has the mineral rights and the rights to extract all minerals under this Subject State Route 18 and County Road 18/4.

Should you have any questions please call me at my office 740-868-1324.

Sincerely,

Mike Horan

Manager Operations Conventional/Infrastructure

RECEIVED
Office of Oil and Gas

JUL 08 2019

WV Department of Environmental Protection

RECEIVED
Office of Oil and Gas

909 Lake Carolyn Pkwy + Suite 600 + Irving, TX 77039 Office (469) 444-1647 + Fax (469) 444-1649

0 8 2019

WW-6AC (1/12)

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

Date of Noti	ce Certification: 04/30/2019	API No. 47-	. 95	
10.00	0/4/10/4/10/4/	Operator's \		
			ame: Wells Me	ickley
Notice has	been given:			
Pursuant to th	ne provisions in West Virginia Code	\$ 22-6A, the Operator has provided the requ	rired parties w	ith the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	TITM MAD 03	506632.31	
County:	Tyler	Northing:	4375214,60	
District:	Lincoln		State Roule 18	
Quadrangle:	Paden City	Generally used farm name:	Wells Meckley	
Watershed:	Pursley Creek			
requirements Virginia Cod of this article Pursuant to	of subsection (b), section sixteen of le § 22-6A-11(b), the applicant shall have been completed by the applican	perator has attached proof to this Notice Ce	he surface ow hat the notice	ner; and Pursuant to West
	ECK ALL THAT APPLY	Printed that the second		OOG OFFICE USE ONLV
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAU SEISMIC ACTIVITY WAS CONDUCT		RECEIVED/
☐ 2. NO	TICE OF ENTRY FOR PLAT SUR	VEY or  NO PLAT SURVEY WAS CO	NDUCTED	☐ RECEIVED
■ 3. NO	OTICE OF INTENT TO DRILL OF	☐ NOTICE NOT REQUIRED BECAU NOTICE OF ENTRY FOR PLAT SURV WAS CONDUCTED or		RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	E OWNER	
■ 4. NO	TICE OF PLANNED OPERATION			☐ RECEIVED
■ 5. PU	BLIC NOTICE			☐ RECEIVED
■ 6. NO	DTICE OF APPLICATION			☐ RECLIVED

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 Affidayit of Phill Cation. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed at 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)

#### Certification of Notice is hereby given:

47 09 9 02 6 3 4

THEREFORE, I Mike Horan 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: Triad Hunter, LLC By: Mike Horan Its:

Manager - Operations Conventional/Infrastructure

Telephone: 740-868-1324 Address: 125 Putnam Street

Marietta, OH 45750

Facsimile: 740-374-5270

Email: mhoran@brmresources.com

OTARY SEAL entala K. Richolson, Notary Public in and For The State of Ohio My Commission Expires 8-9-20

Subscribed and sworn before me this 364 day of April 2019.

My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

JUL 0 8 2019

WW-6A (9-13)

API NO. 47-95
OPERATOR WELL, NO. 3M
Well Pad Name: Wells Mackey 6 5

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

Not	ice Time Requireme	nt: notice shall be provided no	later than the filing date of permit application.
	e of Notice: 04/30/19 ice of:	Date Permit Application Fil	led:
<b>V</b>	PERMIT FOR ANY	D CERTIFICATE	OF APPROVAL FOR THE
	WELL WORK		OF APPROVAL FOR THE ON OF AN IMPOUNDMENT OR PIT
	WEED WORK	COMBINGCIN	SIVOL AND MILITION THE
Deli	ivery method pursua	int to West Virginia Code § 2	2-6A-10(b)
	PERSONAL	☑ REGISTERED □	METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sedi the soil a descooper more well imphavo provo proposubs recooperation of the cooperation of the cooperat	ment control plan requisurface of the tract on and gas leasehold being tribed in the erosion arrator or lessee, in the ele coal seams; (4) The old work, if the surface troundment or pit as design a water well, spring of the water for consumptions of the sheriff requivision of this article to the R. § 35-8-5.7.a requision.	dired by section seven of this article which the well is or is proposed to developed by the proposed well and sediment control plan submitted went the tract of land on which the owners of record of the surface tract is to be used for the placement or water supply source located with other by humans or domestic anirely is to take place. (c)(1) If more to on hold interests in the lands, the fired to be maintained pursuant to the contrary, notice to a lien hold irres, in part, that the operator shall	receipt or signature confirmation, copies of the application, the erosion and cle, and the well plat to each of the following persons: (1) The owners of record of to be located; (2) The owners of record of the surface tract or tracts overlying the l work, if the surface tract is to be used for roads or other land disturbance as ed pursuant to subsection (c), section seven of this article; (3) The coal owner, we well proposed to be drilled is located [sic] is known to be underlain by one or fact or tracts overlying the oil and gas leasehold being developed by the proposed int, construction, enlargement, alteration, repair, removal or abandonment of any cle; (5) Any surface owner or water purveyor who is known to the applicant to othin one thousand five hundred feet of the center of the well pad which is used to mals; and (6) The operator of any natural gas storage field within which the than three tenants in common or other co-owners of interests described in a applicant may serve the documents required upon the person described in the section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any der is not notice to a landowner, unless the lien holder is the landowner. W. Va. all also provide the Well Site Safety Plan ("WSSP") to the surface owner and any or testing as provided in section 15 of this rule.
	Application Notice	☑ WSSP Notice ☑ E&S Plar	Notice ☑ Well Plat Notice is hereby provided to:
	URFACE OWNER(s	)	☐ COAL OWNER OR LESSEE
	ne: Velma Luella Wells	(	Name:
	dress: 1901 Tyler Highway ersville, WV 26175		Address:
-	ne: Gerald & Rebecca Mec	klev	COAL OPERATOR
	dress: 1701 Tyler Highway		Name:
	ersville, WV 26175		Address:
		) (Road and/or Other Disturban	
_	14 44		☑ SURFACE OWNER OF WATER WELL
	Junear		AND/OR WATER PURVEYOR(s)
710			Name: Welma Luella Wells
Nai	me:		Address: 1901 Tyler Highway
			Sistersyille, WV 26175
			☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	URFACE OWNER(s	(Impoundments or Pits)	Name: RECEIVED
_			Address: Office of Oil and Gas
Ad	•		
			*Please attach additional forms if necessary

API NO. 47-95
OPLRATOR WELL NO. 3M. 6.3
Well Pad Name: We's Meckley

#### 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided. whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending apstream 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



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

#### Water Well Testing:

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

#### Water Testing Laboratories:

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

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

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

#### **Written Comment:**

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

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

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Office of Oil and Gas

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

WW-6A (8-13) API NO. 47-95 OPERATOR WELL NO. 8M 2 6 3 4 Well Pad Name; Wells Meckley

#### 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 <a href="http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx">http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx</a> 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.

RECEIVED
Office of Oil and Gas

JUL 08 2019

WW-6A (8-13)

API NO. 47-95
OPERATOR WELL NO. 3M 0 5 4
Well Pad Name: Wells Meckley

Notice is hereby given by:

Well Operator: Triad Hunter, LLC Telephone: 740-868-1324

Email: mhoran@brmresources.com

Address: 125 Putnam Street

Marietta, OH 45750

Facsimile: 740-374-5270

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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

Pamela K. Nicholson, Notary Public In and For The State of Ohio My Commission Expires. 8-9-20

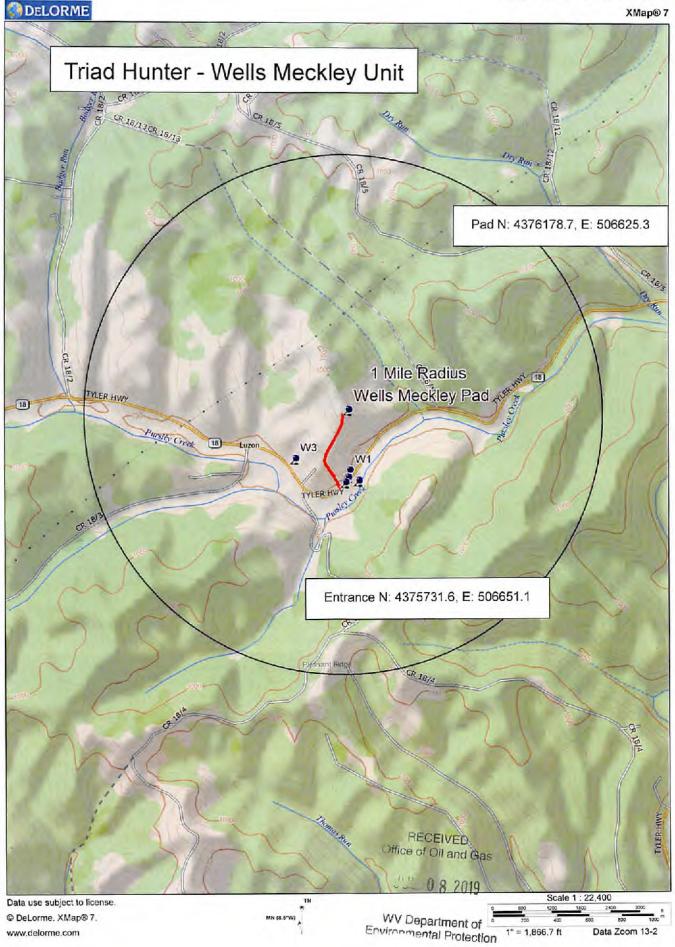
Subscribed and sworn before me this 30th day of April 2019.

Motary Public

My Commission Expires 8-9-2020

RECEIVED
Office of Oil and Gas

JUL 0 8 2019



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

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

Notice Time Date of Notic			d at least TEN (10) days prior to filing a Permit Application Filed:	permit application.	
Delivery met	hod pursuant	to West Virginia Code	§ 22-6A-16(b)		
☐ HAND		CERTIFIED MAIL			
DELIVE	RY	RETURN RECEIPT R	REQUESTED		
receipt reques drilling a hor of this subsect subsection mand if availab	ted or hand delizontal well: P tion as of the day be waived in le, facsimile nureby provider	livery, give the surface of rovided, That notice give ate the notice was provide writing by the surface of	owner notice of its intent to enter upon the ven pursuant to subsection (a), section to ded to the surface owner: <i>Provided, how</i> owner. The notice, if required, shall included it address of the operator and the operator owner.		
Name: Velma L			Name: Gerald & Rebecca M		
Address: 1901			Address: 1701 Tyler Highwa	у	
Sistersville, WV 2	61/5		Sistersville, WV 26175		
State: County:	West Virginia Tyler	the purpose of drilling a	o), notice is hereby given that the undersigned lling a horizontal well on the tract of land as for the tract of land as	506632.31 4376214.60	
District:	Lincoln		Public Road Access:	State Route 18	
Quadrangle:	Paden City		Generally used farm name:	Wells Meckley	
Watershed:	Pursley Creek Shall Includ	Α.	<del></del>		
Pursuant to facsimile nur related to ho	West Virginia nber and electrizontal drilling	Code § 22-6A-16(b), the ronic mail address of the may be obtained from	he operator and the operator's authorize the Secretary, at the WV Department of	ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.	
Notice is he	reby given by	y:		111 011	
	Triad Hunter,		Authorized Representative	: Mike Horan	
Address:	125 Putnam S	treet	Address:	125 Putnam Street	
	Marietta, OH 4	5750		Marietta, OH 45750	
Telephone:	(740) 760-055	8	Telephone:	740-868-1324	
Email:	wharless@mr	esources.com	Email:	mhoran@mresources.com	
Facsimile:			Described by		
			Facsimile:		

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, addressered telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies of flued position 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 at your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

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

Notice Time Date of Notic	Requirement: notice shall be proved: 04/30/2019 Date Pe	vided no later than the filing date or rmit Application Filed:	of permit application.
Delivery met	hod pursuant to West Virginia (	Code § 22-6A-16(c)	
	FIED MAIL. RN RECEIPT REQUESTED	☐ HAND DELIVERY	
return receipt the planned or required to be drilling of a li damages to th	requested or hand delivery, give to operation. The notice required by provided by subsection (b), section norizontal well; and (3) A propose e surface affected by oil and gas of	he surface owner whose land will he this subsection shall include: (1) on ten of this article to a surface owned surface use and compensation aperations to the extent the damages.	mit application, an operator shall, by certified mail be used for the drilling of a horizontal well notice of A copy of this code section; (2) The information oner whose land will be used in conjunction with the agreement containing an offer of compensation for a are compensable under article six-b of this chapter, address listed in the records of the sheriff at the time
	eby provided to the SURFACE ( s listed in the records of the sherificate wells		. Rebecca Meckley
I rettine.			
Address: 1901	Tyler Highway	Address: 1701	Tyler Highway
Address: 1901 Sistersville, WV 26	8175	Address: 1701 Sistersville, WV 26	
Notice is here Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the und urpose of drilling a horizontal well  UTM NAD 83	ersigned well operator has developed a planned on the tract of land as follows:  asting: 506632.31  Horthing: 4376214.60
Notice is here Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the und urpose of drilling a horizontal well  UTM NAD 83  Public Road Access	ersigned well operator has developed a planned on the tract of land as follows:  asting: 508632.31  Jorthing: 4376214.60  S: State Route 18
Notice is here Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the und urpose of drilling a horizontal well  UTM NAD 83	ersigned well operator has developed a planned on the tract of land as follows:  asting: 508632.31  Jorthing: 4376214.60  S: State Route 18
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information or	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the und urpose of drilling a horizontal well  UTM NAD 83  Public Road Access Generally used farm  this notice shall include: (1)A cop to a surface owner whose land and compensation agreement con the extent the damages are compensation obtained from the Secretary, a	dersigned well operator has developed a planned on the tract of land as follows:  (asting: 506632.31  (asting: 4376214.60  State Route 18  In name: Wells Meckley  Day of this code section; (2) The information required will be used in conjunction with the drilling of a staining an offer of compensation for damages to the asable under article six-b of this chapter. Additional at the WV Department of Environmental Protection
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to Wood to be provided horizontal we surface affect information in headquarters,	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the undurpose of drilling a horizontal well  UTM NAD 83  Public Road Access Generally used farm  this notice shall include: (1)A cop to a surface owner whose land and compensation agreement con the extent the damages are compens be obtained from the Secretary, a Charleston, WV 25304 (304-9)	ersigned well operator has developed a planned on the tract of land as follows: lasting: 506632.31 lorthing: 4376214.60 s: State Route 18 n name: Wells Meckley  by of this code section; (2) The information required
Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the property of the	notice is hereby given that the undurpose of drilling a horizontal well  UTM NAD 83  Public Road Access Generally used farm  this notice shall include: (1)A cop to a surface owner whose land and compensation agreement con the extent the damages are compens be obtained from the Secretary, a Charleston, WV 25304 (304-9)  Address: 125 Pc	dersigned well operator has developed a planned on the tract of land as follows:  State Southing:  State Route 18  In name:  Wells Meckley  Department of Environmental Protection of the WV Department of Environmental Protection of 26-0450) or by visiting www.dep.wv.gov/oil-and-

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 of FOE personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

0 8 2019



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

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

June 25, 2019

Byrd E. White, III Secretary of Transportation

> Jimmy Wriston, P. E. Deputy Secretary/ Acting Commissioner

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

Subject: DOH Permit for the Wells/Meckley Pad, Tyler County Wells/Meckley 3M Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2013-0563 issued to Triad Hunter, LLC for access to the State Road for a well site located off WV 18 in Tyler County.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Cc: Will Harless

Triad Hunter, LLC

CH, OM, D-6

File

RECEIVED
Office of Oil and Gas

JUL 0 8 2010

#### CAS Numbers for frac additives:

1. Friction reducers, (PSC) AS-9810

a. Acrylamide, CAS #26100-47-0 34-40% 2. Scale inhibitor, (PSC) AS-9220 a. Organic phosphate, CAS #11024-99-2 10-25% 3. Flowback surfactant + iron stabilizer, (PSC) AS-9899 a. Ethoxylated alcohol, CAS #65439-46-3 10-15% b. Stannous chloride, CAS #7772-99-8 5-10% c. Sulfamic acid, CAS #5329-14-6, 5-8% d. Monoethylamine CAS #141-43-5 2-6%

4. Microbiocide, One AquaSource MB-7530 (see attached MSDS, page 1)

RECEIVED
Office of Oil and Gas

JUL 08 2019

### WELLS MECKLEY PAD EXPANSION

#### 6A HORIZONTAL WELL PERMIT MODIFICATION

APPROVED MODIFICATION WYDEP OOG 7/30/2019

TRIAD HUNTER, LLC.

LINCOLN DISTRICT, TYLER COUNTY, WEST VIRGINIA LITTLE MUSKINGUM-MIDDLE ISLAND WATERSHED



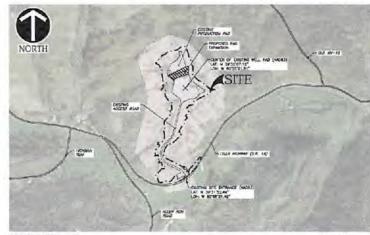
740-452-4501 (OFFICE)

740-2213935 (CELL)

304-758-4344 CR 911

3/34-758-5125

1-800-642-3074



#### EMERGENCY CONTACT INFORMATION

TRIAD NUNTER, LLC.
BRUCE CARFENTER-ENVIRONMENTAL, HEALTH, SAFETY,

AND REGULATORY MANAGER

EMERGENCY RESPONDERS:
TYLER COUNTY FIRE DEPARTMENT/EMS
TYLER COUNTY EMERGENCY MEDICAL SERVICES TYLER COUNTY SHERIEF TYLER COUNTY OFFICE OF EMERGENCY MANAGEMENT

911 ADDRESS: 4883 TYLER HIGHWAY, INDUSTRIAL, WEST VIRGINIA, 26173

ON-PAD SPILE.
WYDEP POLLETION AND EMERGENCY SPILES.

OFF-PAD IMPACTS WYDER OFFICE OF OIL AND GAS

SERAL NUMBER: 1915652420

#### PROJECT DATA

CIVIL ENGINEER

CIVIL & ENVIRONMENTAL CONSULTANTS, INC. 333 HALDWIN ROAD PITTSBURGH PA 15205 PIL 412-429-2324 CONTACT BRANC LANDS P.E.

TRIAD HENTER LLC CONTROL SHEVE J. LYSCHA, P.E.

	SHEET INDEX	
DWG NO.	TITLE	
- 1	COVER SHEET	
- 2	DENERAL NOTES	
3.6	EXISTING CONDITIONS FUND	
6-8	PROPOSED CONDITIONS PLAN	
0	CUTATILL PLAN	
12	CROSS SECTIONS AND PROFILES	
11-16	DETAILS	
17	EXISTING ACCESS ROAD PROFILE	

PROJI	ECT DISTUR	RBANCE SUM	MARY
PROJECT AREA	DISTURBED ACREAGE (AC)	LANDOWNER	DISTURBED ACREAGE (AC)
WELL PAD	31.2	GERALDW, MECKLEY ET AL	5.8
ACCESS ROAD	6.5	VELMA L WELLS	139
TOTAL	19.7	TOTAL	19.7







TRIAD HUNTER, LLC WELLS MECKLEY PAD EXPANSION TYLER COUNTY, WEST VIRGINIA

