

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

Thursday, May 31, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TRIAD HUNTER, LLC 125 PUTNAM ST

MARIETTA, OH 45750

Permit approval for SPENCER 1UH Re: 47-095-02495-00-00

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: SPENCER 1UH

Farm Name: ANNE L. SPENCER

U.S. WELL NUMBER: 47-095-02495-00-00

Horizontal 6A New Drill

Date Issued: 5/31/2018

Promoting a healthy environment.

API Number: 95-02495

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

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

API Number: 95-02495

PERMIT CONDITIONS

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



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

April 10, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit – API #47-095-02495

COMPANY: Triad Hunter, LLC

FARM: Triad Hunter, LLC Spencer 1UH

COUNTY: Tyler DISTRICT: Ellsworth QUAD: Paden City

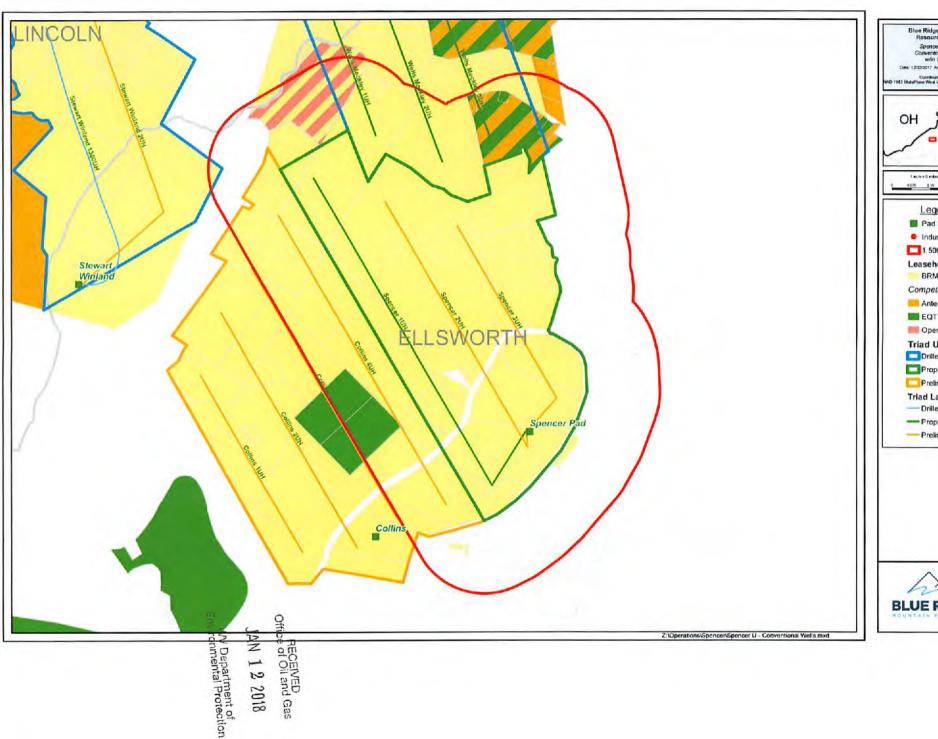
The deep well review of the application for the above company is **Approved to drill to Point Pleasant** for completion.

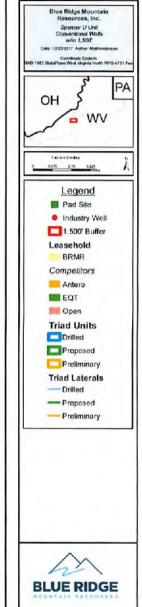
The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (1931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? No.
- 2. Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: WELLS MECKLEY 2UH; 47-095-02485
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose Administrator







Date

(Conventional Well Operator) (address) (address)	
RE: Spencer Hydraulic Fracturing Notice	
To whom it may concern,	
Triad Hunter has developed a Marcellus and Utica pad (Spencer pad) located in Tyler County, WV. As an owner or operator of conventional natural gas wells in this area, we are requesting your assistance in this matter.	
Due	
Should you have any questions please call me at 740-760-0558.	
Thank you,	
Will Harless Supervisor Regulatory Operations RECEIVED Office of Oil and Ga	s

JAN 1 2 2018



(Date)

[Conventional Well Operator] [Address] [State]

RE: Spencer Hydraulic Fracturing Notice

To whom it may concern,

Triad Hunter has developed a Marcellus and Utica pad (Spencer pad) located in Tyler 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 the apparent presence of unique geological conditions, the potential for communication between deep geological 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 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability, Alexander formation (approximately 5,200' TVD).

Triad Hunter anticipates conducting hydraulic fracturing at the Spencer Pad during the third quarter of 2018. We have identified conventional natural gas wells operated by your company within 1500' (lateral distance) of our new planned laterals. Plans for each well on the 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.
- Observe wells closely during and after fracturing and monitor for abnormal increases in water, gas, or pressure.
- Inspect or install master valves rated to 3,000 psi or other necessary equipment for wellhead integrity.
- 4. Notify the OOG and Triad Hunter if any changes in water, gas production, pressure, or other anomalies are identified.

Should you have any questions please call me at 740-760-0558.

Thank you,

Will Harless Supervisor Regulatory Operations

Purpose

The purpose of this pad-specific Hydraulic Fracturing Monitoring Plan is to identify and notify conventional well operators near Triad Hunter, LLC hydraulic fracturing in Tyler County, WV prior to hydraulic fracturing at the following Triad Hunter wells near the Collins Pad: (47-095-00865).

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 6,400' TVD) and existing conventional natural gas wells in the partially-depleted, relatively high permeability Alexander formation (approximately 5,200' TVD).

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 assurance that the OOG is notified of the timeline, as well as any issues that may arise during fracturing.

1. Communication with Conventional Well Operators

Triad Hunter, using available data (WV Geological Survey, WVDEP website, and HIS data service), has identified all known conventional wells and well operators within 1,500 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 approval of this plan, Triad Hunter 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 Triad hunter 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 Triad Hunter if any changes in water, gas production, pressure, or other anomalies are identified

2. Reporting

Triad Hunter 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.

API	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4709502033	1st Salt Sand	Well Record	960	Reasonable	132	Reasonable	703	Ground Level
4709502033	2nd Salt Sand	Well Record	1146	Reasonable	37	Reasonable	703	Ground Level
4709502033	3rd Salt Sand	Well Record	1394	Reasonable	34	Reasonable	703	Ground Level
4709502033	Big Lime	Well Record	1552	Reasonable	92	Reasonable	703	Ground Level
4709502033	Big Injun (undiff)	Well Record	1650	Reasonable	171	Reasonable	703	Ground Level

Coal	Structure	Thickness (ln.)	
Washington Coal - Dunkard Group	810	0	
Waynesburg A Coal - Dunkard Group	810	0	
Pittsburgh Coal - Monongahela Group	370	~48	Inferred from WVGES coal mapping project
Redstone Coal - Mon Group	410	less than 12	Inferred from WVGES coal mapping project
Sewickley Coal Mon Group	460	less than 18	Inferred from WVGES coal mapping project

WW-6B (04/15)

API NO. 47-95	
OPERATOR WELL NO. 10	JH
Well Pad Name: Spencer	

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

1) Well Operator: Tri	ad Hunter, LLC	494494833	Tyler	Ellsworth	Paden City
		Operator ID	County	District	Quadrangle
2) Operator's Well Nu	mber: 1UH	Well P	ad Name: Sp	encer	
3) Farm Name/Surface	Owner: Anne Spend	public Ro	oad Access: C	County Road 2	26
4) Elevation, current g	round: 703'	_ Elevation, propose	d post-constru	ction: 703'	
5) Well Type (a) Ga Other	s <u>x</u> Oi	1 <u>x</u> Un	derground Sto	rage	
(b)If C	ias Shallow	Deep	x		200
6) Existing Pad: Yes o	Horizontal X r No Yes		_	DAH 1-9-18	1/9/2018
7) Proposed Target For Point Pleasant Shale	rmation(s), Depth(s), A e, 10,891' TVD, 19,565'			Pressure(s):	1.1
8) Proposed Total Vert	rical Depth: 10,891	rvd			
9) Formation at Total V		Pleasant Shale			
10) Proposed Total Me	easured Depth: 19,56	65' MD 🗸			
11) Proposed Horizont	al Leg Length: 7,486	5' 🗸			
12) Approximate Fresh	Water Strata Depths:	300'			
13) Method to Determine	ine Fresh Water Depth	s: Examine local w	ater wells		
14) Approximate Saltw					
15) Approximate Coal	Seam Depths: Multip	le, thin, non-comme	rcial seams 1	,300' - 1,800'	
16) Approximate Dept	h to Possible Void (co	al mine, karst, other):	None know	1	
17) Does Proposed we directly overlying or ac			1	No X	
(a) If Yes, provide M	ine Info: Name:				DECEIVED, Gas
***	Depth:				Office of Oil and Gas
	Seam:				JAN 1 2 2018
	Owner:				W Department of Environmental Protection

WW-6B (04/15)

API NO. 47- 95 -	
OPERATOR WELL	NO. 1UH
Well Pad Name:	Spencer

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	<u>Grade</u>	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	26"	New	A-500	85 ppf	110'	100'	Cement to surface
Fresh Water	20"	New	J-55	94 ppf	370'	350'	Cement to Surface
Coal	13 3/8"	New	J-55	61 ppf	2,110'	2,095'	Cement to Surface
Intermediate	9 5/8"	New	HCP-110	43.5 ppf	9,615'	9,600'	2,120 Cu. Ft.
Production	5 1/2"	New	P-110	23 ppf	19,565'	19,565'	3,471 Cu. Ft.
Tubing	2 3/8"	New	p-110	4.7 ppf	N/A	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

96B 1/9/2018

DMH 1-9-18

ТҮРЕ	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"	.375"	N/A	0	Class A	1.18-1.20 cu.ft./sk
Fresh Water	20"	24"	.438"	2,110	750	Class A	1.18-1.20 cu.ft./sk
Coal	13 3/8"	17 1/2"	.480"	3,090	750	Class A	1.18-1.24 cu.ft./sk
Intermediate	9 5/8"	12 1/4"	.435"	8,700	1750	Class A	1.18-3.0 cu.ft./sk
Production	5 1/2"	8 1/2"	.415"	16,800	9000	Class A & H	1.51-2.08 cu.ft./sk
Tubing	2 3/8"	4 3/4"	.380"	7,700	3000	N/A	N/A
Liners	N/A	N/A	N/A	N/A	N/A	N/A	N/A

PACKERS

Kind:	N/A	
Sizes:	N/A	RECEIVED Gas
Depths Set:	N/A	Office of 011 2 2018

WV Department of WV Department of Environmental Protection

WW-68	3
(10/14))

API NO. 47- 95 OPERATOR WELL NO. 10H
Well Pad Name: Spencer

SEE ATTACHMENT: I-B		
0) Describe fracturing/stimulating methods in d	etail, including anticipated ma	ax pressure and max rate:
SEE ATTACHMENT: II-B		
	DMIX	AB
	DM17	1/9/2018
Area to be disturbed for well pad only, less as Describe centralizer placement for each casing	ccess road (acres): 0 acres	0 acres
Area to be disturbed for well pad only, less as Describe centralizer placement for each casing	ccess road (acres): 0 acres	o: 0 acres
Area to be disturbed for well pad only, less as Describe centralizer placement for each casin EE ATTACHMENT: III-B	ccess road (acres): 0 acres	o: 0 acres
21) Total Area to be disturbed, including roads, s 22) Area to be disturbed for well pad only, less as 23) Describe centralizer placement for each casin 35 EE ATTACHMENT: III-B 36 Describe all cement additives associated with 36 SEE ATTACHMENT: IV-B	ccess road (acres): 0 acres	0 acres
22) Area to be disturbed for well pad only, less as (33) Describe centralizer placement for each casin EEE ATTACHMENT: III-B	ccess road (acres): 0 acres	o: 0 acres
2) Area to be disturbed for well pad only, less as 3) Describe centralizer placement for each casin EE ATTACHMENT: III-B 4) Describe all cement additives associated with	ccess road (acres): 0 acres	
2) Area to be disturbed for well pad only, less as 3) Describe centralizer placement for each casin EE ATTACHMENT: III-B 4) Describe all cement additives associated with SEE ATTACHMENT: IV-B 5) Proposed borehole conditioning procedures:	ccess road (acres): 0 acres	RECEIVED Gas
2) Area to be disturbed for well pad only, less as 3) Describe centralizer placement for each casin EE ATTACHMENT: III-B 4) Describe all cement additives associated with SEE ATTACHMENT: IV-B	ccess road (acres): 0 acres	

(WW-6B)

ATTACHMENT: I-B

#19 Proposed Well Work:

Drill and complete a new horizontal Utica Shale Well.

- AIR Drill a 30" conductor hole to 30 feet; run 26" casing to T.D., cement / grout to surface with Class A cement.
- 2. AIR Drill a 24" surface hole to depth of 350 feet; run 20" casing to T.D. and cement to surface with Class A Cement.
- AIR/SOAP Drill a 17 1/2" intermediate hole to a depth of 2,095 feet; run 13 3/8" casing to T.D. and cement to surface with Class A cement.
- 4. AIR / SOAP Drill a 12 ¼" intermediate hole to a depth of 9,600 feet; run 9 5/8" casing to T.D. and cement back to 1,000 feet with Class A cement.
- 5. Fluid Drill an 8 1/2" production hole to the projected total measured depth @ 19,403 feet.
- 6. Run and Cement 5 ½" production casing to the TMD; cement casing back to 2,500 with Class A and Class H cement.
- 7. Run Cased-hole logs (Gamma-Ray, CCL, Bond).
- 8. Open toe sleeve and establish 15 BPM pump rate.
- 9. Perforate and stimulate multiple stages in Point Pleasant lateral section.
 - a. Perforations per stage = sixty to seventy
 - b. Average stage length = two hundred fifty feet
- 10. Clean-out 5 ½" production casing using a coil tubing rig or a work over rig and snubbing unit.
- 11. Flow test well for seven to ten days to clean up wellbore and determine overall productivity.
- 12. Turn well into production.

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(WW-6B)

#20 Fracturing/Stimulation Methods:

Upon the successful cementation of the 5 1/2" production casing, completion of the well will be performed as follows:

- 1. Run a GR/CCL/Bond log from the bottom of the curve to surface.
- 2. Pressure-up on casing, open the toe sleeve and establish pump rate of 15 bpm through the toe sleeve.
- 3. Run a GR/CCL log form the toe to the base of the curve and correlate with the GR/CCL/Bon log.
- 4. Pump down through the casing a solid bridge plug and perforating guns.
- JUN 19-18 JUB 1/9/2018 5. Set the solid bridge plug just above the toe sleeve and perforate the first stage with 60-70 perforations over a 200'-250' interval (stage#1).
- 6. Fracture stage #1 with a slick water/sand stimulation using approximately 8,000bbls of water and 450,000lbs of sand. Average treating pressure is expected to range between 6,000psi and 7,000psi and average treating rates are expected to range between 70bbls and 80bbls per minute. Upon completion of the stage, the five minute and ten minute shut in pressures are recorded.
- 7. Repeat the same methodology of perforating and fracturing on subsequent stages using composite frac plugs instead of solid bridge plugs. Once the heel is reached, completion operations are suspended. The average number of stages completed in each well range between twenty and thirty.
- 8. Upon completion of the last stage, solid bridge plugs are set in the casing, just above the last stage and Gas top of the curve and just below the well head for safety purposes. JAN 1 2 2018
- 9. Well is shut in until clean out and flow back operations are initiated.

#23 Centralizer Placement:

- A. (26") Conductor Casing No centralizers used.
 - 1. 26" to be set @ 30'TVD-no centralizers.
- B. (20") Surface Casing Between two and four run based on setting depth of casing.
 - 1. 20" to be set @ 350'TVD—centralizer every 2 joints (estimate 4 centralizers to be ran)
- C. (13 3/8") 1st Intermediate Casing- Between six and ten run based on setting depth of casing.
 - 1. 13.375" to be set @ 2095'TVD—centralizer every 5 joints (estimate 10 centralizers to be ran)
- D. (95/8") 2nd Intermediate Casing Between ten and twenty run based on setting depth of casing. Run composite or centex centralizers beginning on first joint for first 1,000', then every second joint to top of cement; then every third joint from there to surface.
 - 1. 9.625" to be set @ 9600' TVD—centralizer 1 per 1 for 1st 1000', then 1 per 2 to surface.
- E. (5 ½") Production Casing:
 - Beginning on joint #5 run one Solid Body Composite Spiral centralizer every third joint throughout lateral up to KOP (Top of Curve). Then run 1 per 4 from KOP to surface.

(WW-6B)

#24 Cement Additives:

A. Conductor Cement Job (26"csg.)

- 1. All conductor casings are cemented with standard CLASS A CEMENT.
 - a) Average weight = 15.6lb./gal
 - b) Average yield = 1.18 ft 3/5k.
 - c) No additional additives are used.

B. 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 ft3/5k
- 2. Common Additives
 - a) 1/4 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.

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

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

- The upper (lead) stage cement job usually consists of CLASS A CEMENT or LIGHT CEMENT.
 - a) Average weight = 13.1 to 13.5 lbs. /gal.
 - b) Average vield = 1.54 to 1.70 ft³/5k.

Common Additives

a) 1/4 lb./5k Cello Flake

(Lost circulation material)

b) 1% - 2% Calcium Chloride

(Accelerator)

*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 vield = 1.18 to 1.20 ft³/5k.

Common Additives

a) 1/4 lb./5k Cello Flake

(Lost circulation material)

b) 1% - 2% Calcium Chloride

EC-1

(Accelerator)

c) 1% bwoc

(Bonding Agent)

d) 55% bwoc

BA-10A

(Bonding Agent)

D. 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.

JAN : 2 2018 WV Department of Environmental Protection

1. Weighted Spacer

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) 50:50 POZ/Premium NE-1 3. Lead Slurry a) Average Weight = 13.50 lbs. /gal b) Average yield = $1.44 \text{ ft}^3//5k$. **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 ft³/5k

Common Additives

a) R-3 .2% bwoc (Retarder) b) CD-32 .75 % bwoc (Dispersant) c) ASA - 301 .35 % bwoc (Free water removal) d) BA-10A 1.25% bwoc (Bonding Agent) e) ASCA 30lbs. /5k (Solubility additive) f) Sodium Metasilicate .58 bwoc (Extender)

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JAN 12 2018

WV Department of Environmental Protection (WW-6B)

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:

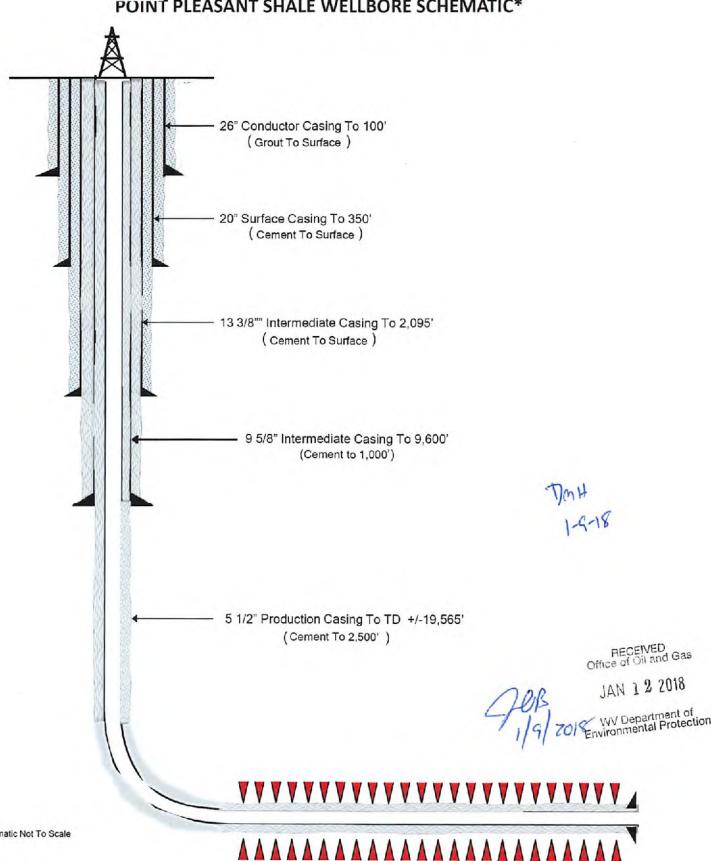
- 1. High Viscosity Sweeps: Sweeps are mixed and pumped after drilling every 3 joints during the drilling process. Sweeps generally run 20 cp over the active mud system viscosity for 20 bbls.
- Clean-Up Cycle: "Clean-Up Cycles" are utilized every 500' in the lateral section of the well. During this routine 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.
- 3. 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. The first at the half-way point of the lateral. The drill pipe is pulled out of the hole to the "kick-off" point of the well. The second short trip is utilized at total depth (TD). At this point the drill pipe is pulled out of the wellbore to the half-way point of the lateral.
- 4. 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.

RECEIVED Office of Oil and Gas JAN 1 2 2018 WV Department of Environmental Protection



Triad Hunter, LLC

Spencer 1UH POINT PLEASANT SHALE WELLBORE SCHEMATIC*



* Schematic Not To Scale

My Commission Expires Aug. 5, 2018

WW-9 (9/13)

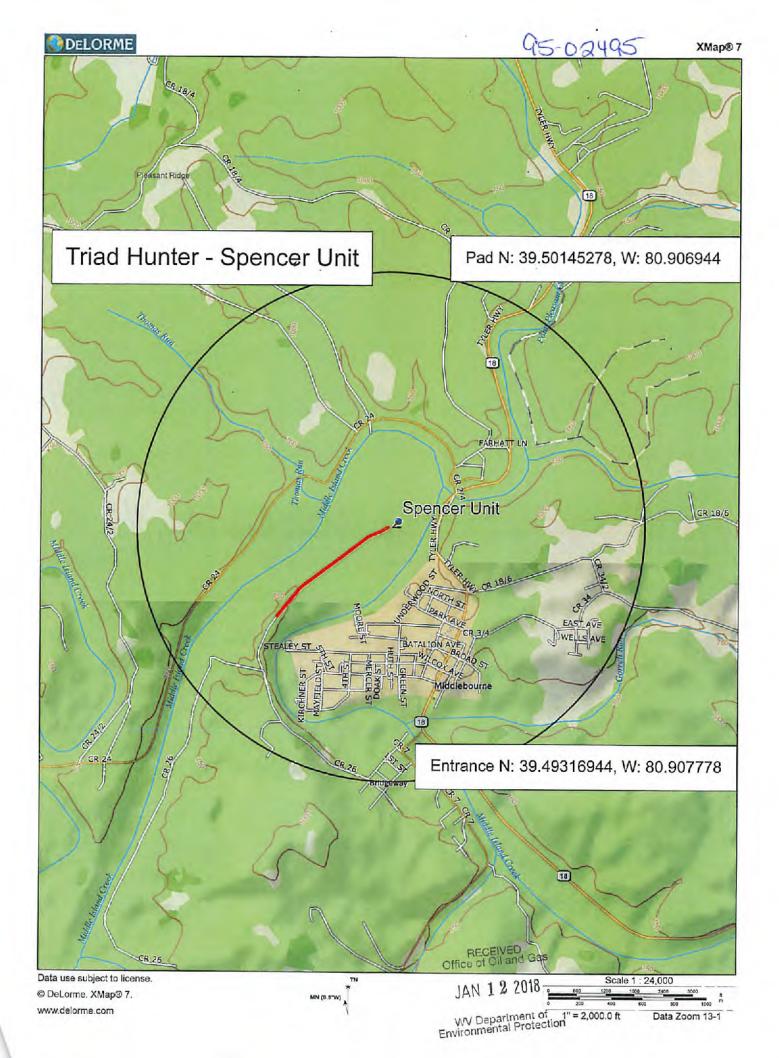
API Number 47 -	*
Operator's Well No	Spencer 1UH

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator NameTr	riad Hunter, LLC		DP Code 494494833	
	0) Middle Island Creek	Quadrangle Pa	den City	
Elevation 703'	County_Tyler		District_Ellsworth	
Do you anticipate w	rising more than 5,000 bbls of water to	o complete the proposed well	work? Yes _ N	DM#
If so, pleas	se describe anticipated pit waste:			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Will a syn	thetic liner be used in the pit? Yes	No ✓ If so,	what ml.?	
Proposed 1	Disposal Method For Treated Pit Was	stes:		CUB
	Land Application Underground Injection (UIC Reuse (at API Number Off Site Disposal (Supply for Other (Explain			- OB 1/9/2018
Will closed loop sy	stem be used? If so, describe: Yes, cuttings	fluids+gases are seperated through a series of ver	see's. Cuttings are then solidified in debris box	ses and hauled to landfill.
Drilling medium an	nticipated for this well (vertical and he	orizontal)? Air, freshwater, o	il based, etc. Top Hole-Air Drill	ed. Lateral-Syn Mud
-If oil base	ed, what type? Synthetic, petroleum,	etc.Synthetic		
Additives to be use	d in drilling medium? See Attachement	I-A: Drilling Additives List		
	sal method? Leave in pit, landfill, ren			
-If left in p	pit and plan to solidify what medium	will be used? (cement, lime,	sawdust) N/A	
	or offsite name/permit number?Wetzel			
on August 1, 2005, provisions of the p law or regulation of I certify u application form a obtaining the infor	by the Office of Oil and Gas of the Vermit are enforceable by law. Violation lead to enforcement action. Index penalty of law that I have performed all attachments thereto and that mation. I believe that the information ting false information, including the	Vest Virginia Department of I tions of any term or conditions sonally examined and am fatt, based on my inquiry of too on is true, accurate, and con	Environmental Protection, in of the general permit an amiliar with the informati those individuals immedi- implete. I am aware that	I understand that the nd/or other applicable ion submitted on this iately responsible for
				JAN 1 2 2018
	(Typed Name) Mike Horan Title Operations Manager Conventions	al/Infrastructure		way Congressment of
Company Official	Title_Operations manager conventions	ammastructure		Environmental Protection
Subscribed and swo	orn before me this 2 day	y of December	2012	OFFICIAL SEAL
	Viv Haless		_ Number	NOTARY PUBLIC STATE OF WEST VIRGINIA
My commission ex	pires Aug. 5, 2018			WILL HARLESS P.O. BOX 69 DANVILLE, WV 25053

Proposed Revegetation Treatment: Acres Disturbed Lime 2-5	
Fertilizer type	
Fertilizer amount 500 lbs/acre Mulch 2 Tons/acre Seed Mixtures Temporary Permaner Seed Type lbs/acre Seed Type Common Orchard Grass 30% Same as temporary Perennial Rye 35% Medium Red Clover 25% Common Timothy 10% Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans incluprovided) Photocopied section of involved 7.5' topographic sheet.	
Seed Mixtures Temporary Seed Type Common Orchard Grass 30% Perennial Rye Medium Red Clover Common Timothy Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans includorovided) Photocopied section of involved 7.5' topographic sheet.	
Seed Type Ibs/acre Seed Type Common Orchard Grass 30% Same as temporary Perennial Rye 35% Medium Red Clover 25% Common Timothy 10% Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans inclusorovided) Photocopied section of involved 7.5' topographic sheet.	
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Medium Red Clover 25% Common Timothy 10% Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans incluprovided) Photocopied section of involved 7.5' topographic sheet.	
Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans incluprovided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Plan Approved by: Plan Approved by:	
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Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans incluprovided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	
Comments:	
1.1	Offic



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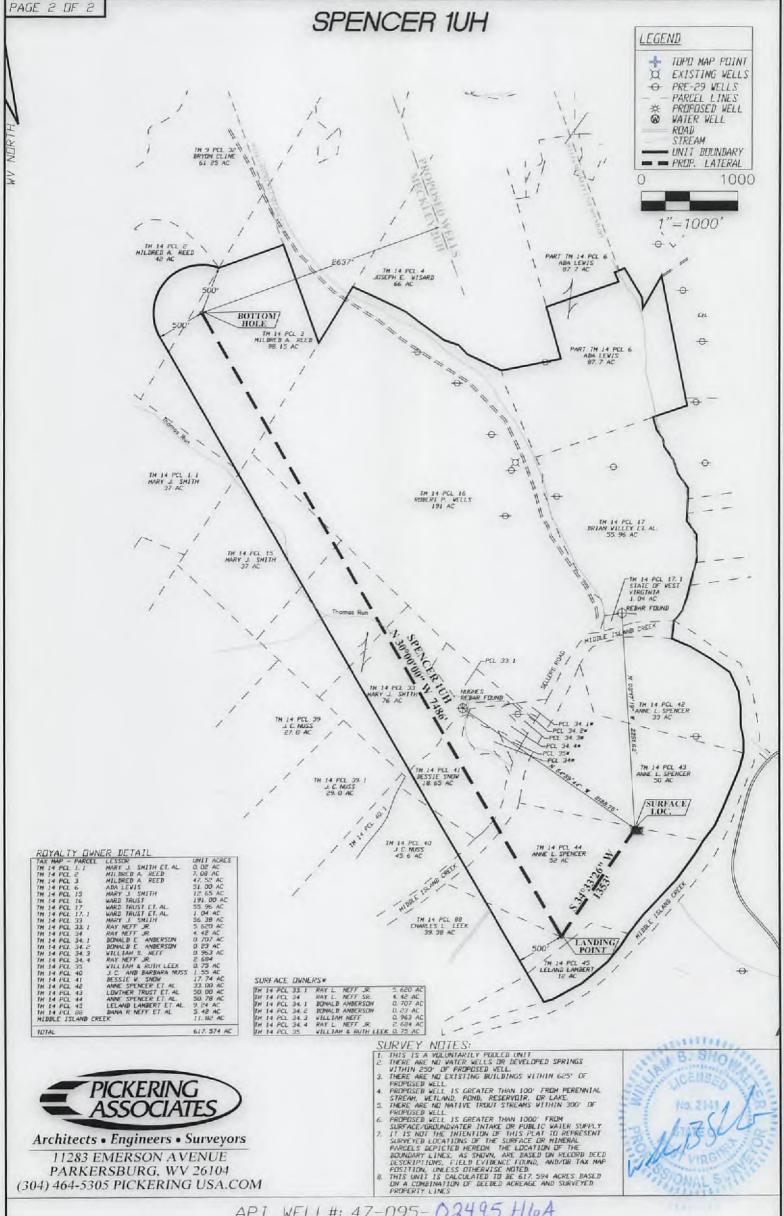
TRIAD HUNTER LLC. Subsidiary Of Blue Ridge Mountain Resources

125 Putnam Street Marietta, Ohio 45750

SITE & SAFETY PLAN

Spencer Tyler County West Virginia

			Office of Off and Gas
Approved:			JAN 12 2018
West Virginia DEP	9CB	Date: 1/9	WV Department of Environmental Protection
Triad Hunter LLC	Mil IIn	Date: _/2	1/22/17



API WELL#: 47-095-02495 HLA

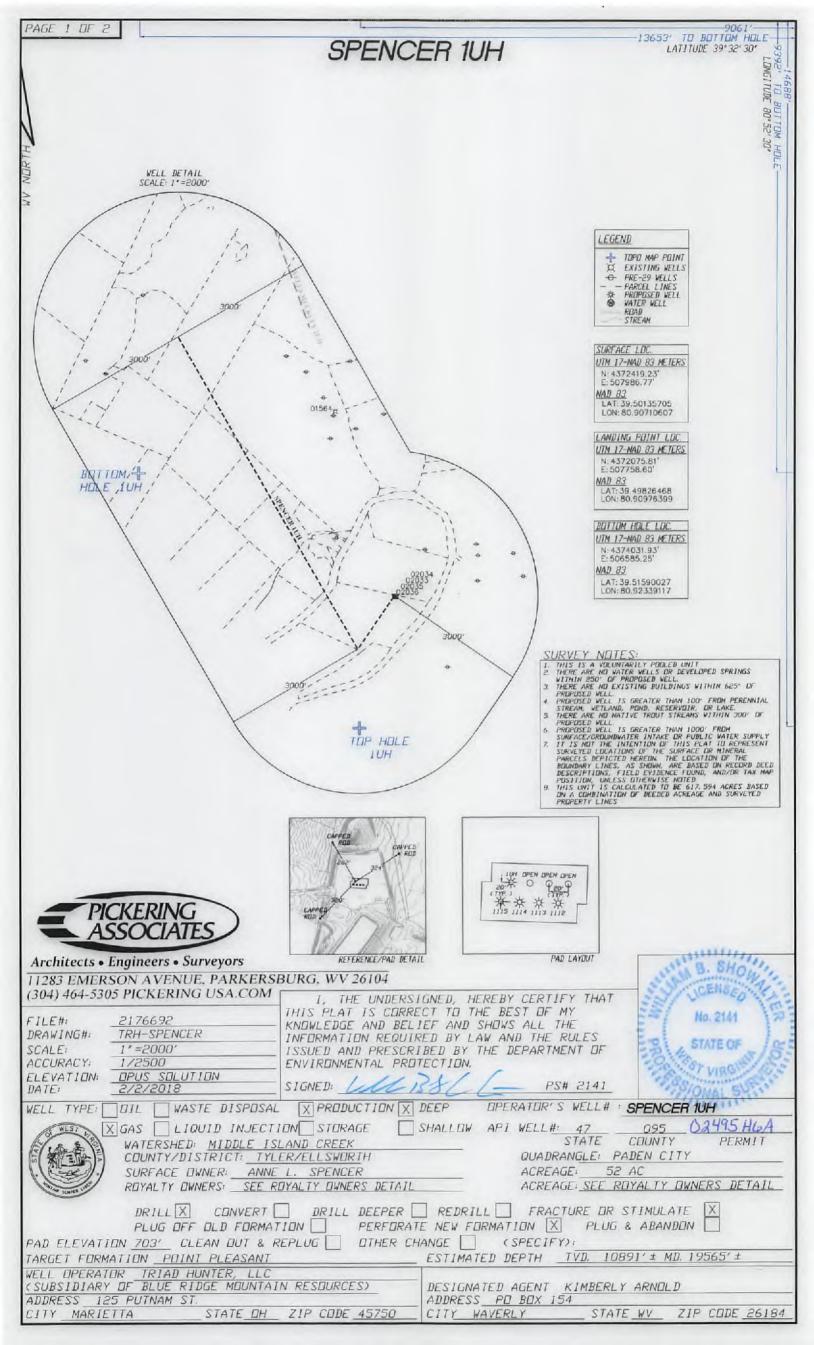
OPERATOR'S WELL# + SPENCER 1UH

WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES)

DESIGNATED AGENT KIMBERLY ARNOLD ADDRESS PO BOX 154 WAVER

ADDRESS 125 PUTNAM ST. MARRIETTA DH 45750

ADDRESS PD BOX 154 WAVERLY WV 26184 DATE: 2/2/2018



WW-6A1	
(5/13)	

Operator's Well No.	1UH	
The state of the s		_

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

Please see attached 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

RECEIVED Office of Oil and Gas

JAN 1 2 2018

WV Department of Environmental Protection

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

Its:

Manager Operations Conventional/Infrastructure

Page 1 of ____

Form WW6A1 - List of Lessors Spencer 1UH

			Lessor's			Tax Map/Parcel Number of Parcel(s)	
Lease Number	Lessor	Lessee	Address	Lease Recording Data	Royalty	in Unit	Lease Date
			402 James St.				
			New				
			Martinsville,				
LSE250SPE2	Anne L. Spencer	Triad Energy Corp	WV 26155	Book 378 Page 749	12.5%	14-44	3/1/2007
WVDNR License				WVDNR License			
Agreement	Middle Island Creek			Agreement	N/A	N/A	N/A
			Danita 4 Dani 45			, ,	
			Route 1 Box 15 Middlebourne.				
LSE250SNO1	Dessie W. Snow	Triad Hunter, LLC	WV 26149	Book 378 Page 150	12.5%	14-41	9/28/2010
LSEZSOSITOI	Desaie W. Show	That Haller, EEC	PO Box 68 215	500K 570 Tuge 150	12.570	27.72	3/20/2020
			Francis Avenue,				
			Windsor				
		ĺ	Heights, WV				
LSE250SMI12	Mary J. Smith	Triad Hunter, LLC	26070	Book 377 Page 421	14%	14-33	9/1/2010
			PO Box 68 215				
•		1	Francis Avenue,				
		1	Windsor				
1.5555.55414.5	Adams I Contab	Triad Humber H.C.	Heights, WV	Dook 377 Door 434	4.40/	4445	9/1/2010
LSE250SMI12	Mary J. Smith	Triad Hunter, LLC	26070 600 Grant St.	Book 377 Page 421	14%	14-15	9/1/2010
		1	Suite 3100				
·		1	Pittsburgh, PA				
LSE250WAR6	Sarah R. Ward Trust	Triad Energy Corp	15219	Book 379 Page 222	12.5	14-16	8/9/2007
		, , , , , , , , , , , , , , , , , , , ,	722 Pleasant				
			Ridge Road				
		1	Sistersville, WV				
LSE250REE2	Mildred A. Reed	Triad Hunter, LLC	26175	Book 383 Page 100	14%	2-14-3	3/1/2011



December 5, 2018

WVDEP Office of Oil and Gas 601 57th Street, SE Charleston, WV 25304

RE: Spencer Unit

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 and Point Pleasant Shale on the Spencer acreage located in the Ellsworth District, Tyler County. Spencer will have portions of the horizontal laterals crossing State Route 24. Triad Hunter, LLC also has the mineral rights and the rights to extract all minerals under this Subject State Route 24.

Furthermore Triad Hunter, LLC acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities that include, but not limited to the WV Division of Highways, U.S. Army Corp of Engineers, U.S. Fish Wildlife Service and County Floodplain Coordinator.

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

JAN 19 2018

WW-6AC (1/12)

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

Dute of Living	ce Certification:	API No. 47-	895 - C	2495		
Date of Notice Certification:		Operator's Well No. 1UH				
		Well Pad Name: Spencer				
Notice has b	neen given:	77 CH 1 HW 1 1H				
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has provided the requir	red parties w	ith the Notice Forms listed		
	tract of land as follows:	22-071, the operator has provided the requi	rea parties v	idi die Fronce i omis nove		
State:	West Virginia	Easting: 50	07968.7			
County:	Tyler	IITM NAD 83	372419.2			
			county Road 26			
District:	Ellsworth		pencer			
Quadrangle:	Paden City	Generally used farm name: S	pericer			
Watershed:	Middle Island Creek					
information re of giving the requirements Virginia Code	equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of	bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the requirever pursuant to subsection (a), section tends this article were waived in writing by the ender proof of and certify to the secretary that.	irement was of this artice surface ow	deemed satisfied as a resur- cle six-a; or (iii) the notice oner; and Pursuant to Wes		
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY	perator has attached proof to this Notice Cert d parties with the following:	hication	OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCTED		RECEIVED/ NOT REQUIRED		
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	VEY or NO PLAT SURVEY WAS CON	NDUCTED	☐ RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVE WAS CONDUCTED or		☐ RECEIVED/ NOT REQUIRED		
		UNDITTEN WARRED DW CLIDEACE	OWNER			
		☐ WRITTEN WAIVER BY SURFACE (PLEASE ATTACH)	OWNER			
■ 4. NO	TICE OF PLANNED OPERATION	(PLEASE ATTACH)		☐ RECEIVED		
		(PLEASE ATTACH)	ECEIVED of Oil and G			
■ 5. PUI	BLIC NOTICE	(PLEASE ATTACH) R Office		RECEIVED		
■ 5. PUI		(PLEASE ATTACH) R Office JAN	ECEIVED of Oil and G	RECEIVED		

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)

Certification	of Notice	is	hereby	given
Cultillanon	OI TIDELCE	- 0	mer co	5 . · · · · ·

above, to the re signature confir in this Notice (obtaining the in	at as required under West Virginia Code § 22 equired parties through personal service, by r mation. I certify under penalty of law that I ha Certification and all attachments, and that b	2-6A, I have so registered mail have personally passed on my in the, accurate and	the notice requirements within West Virginia Code § 22- erved the attached copies of the Notice Forms, identified or by any method of delivery that requires a receipt or examined and am familiar with the information submitted inquiry of those individuals immediately responsible for d complete. I am aware that there are significant penalties onment.
Well Operator:	Triad Hunter, LLC	Address:	125 Putnam Street
By:	Mike Horan		Marietta, OH 45750
Its:	Operations Manager	Facsimile:	740-374-5270
Telephone:	740-868-1324	Email:	mhoran@brmresources.com
NEST CONTRACTOR OF THE PARTY OF	STATE OF WEST VIRGINIA WILL HARLESS P.O. BOX 69 PANYULE MAY 25052	cribed and swo	

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 deepprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

JAN 1 2 2018

WV Department of Environmental Protection WW-6A (9-13)

API NO. 47- <u>95</u>	
OPERATOR WELL NO.	1UH
Well Pad Name: Spencer	

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

Not	ice Time Requiremen	t: notice shall be provide	d no later tha	n the filing date of permit application.	
	e of Notice: 12/20/2017 ice of:	Date Permit Application	n Filed:		
V	PERMIT FOR ANY WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	
Deli	very method pursuar	nt to West Virginia Cod	e § 22-6A-10	(b)	
	PERSONAL	Z REGISTERED	☐ METH	OD OF DELIVERY THAT REQUIRES A	
	SERVICE	MAIL	RECEI	PT OR SIGNATURE CONFIRMATION	
seding the	ment control plan requireurface of the tract on wind gas leasehold being ribed in the erosion and ator or lessee, in the ever coal seams; (4) The owner work, if the surface trace work, if the surface trace a water well, spring or ide water for consumptions with the work activity ection (b) of this section design of the sheriff required ision of this article to the R. § 35-8-5.7.a require	red by section seven of this hich the well is or is propodeveloped by the proposed sediment control plan subsent the tract of land on which was of record of the surfect is to be used for the place tis to take place. (c)(1) If not hold interests in the landed to be maintained pursuate contrary, notice to a lientes, in part, that the operator	s article, and the seed to be locally well work, if committed pursuation the well produce that the seement, construction is article; (5) A sed within one committed and the applicant to section en holder is not or shall also property in the section of the sectio	or signature confirmation, copies of the applicate the well plat to each of the following persons: (I ated; (2) The owners of record of the surface traction to subsection (c), section seven of this article roposed to be drilled is located [sic] is known to record to be drilled is located [sic] is known to record to be drilled is located [sic] is known to record to be drilled is located [sic] is known to record to be drilled is located [sic] is known to record to the record	t) The owners of record of ct or tracts overlying the r land disturbance as e; (3) The coal owner, be be underlain by one or eveloped by the proposed or abandonment of any own to the applicant to well pad which is used to d within which the rests described in erson described in the (2) Notwithstanding any the landowner. W. Va.
Ø A	application Notice	WSSP Notice □E&S	Plan Notice	☑ Well Plat Notice is hereby provided to	o :
	JRFACE OWNER(s)			COAL OWNER OR LESSEE	
	ne: Anne Spencer ress: 402 James Street			Name:	
	Martinsville, WV 26155			Address:	
	· · · · · · · · · · · · · · · · · · ·			COAL OPERATOR	
	ress:	<u> </u>			Office CEIVED
		<u>. </u>		Name:Address:	Office of Oil and Gas
7 ST	JRFACE OWNER(s)	(Road and/or Other Distu	rbance)		JAN 1 2 2018
_	e: Anne Spencer		,	SURFACE OWNER OF WATER WELL	3AN 1 2 ZUI8
Add	ress: 1301 Allen Run Road			AND/OR WATER PURVEYOR(s)	W Danarimant
Sister	sville, WV 26175			Name:	Environmental Protection
Nan	e: Robert Neff			Address:	
	ress: RR 2, Box 432	-			
	rs, WV 26035			☐ OPERATOR OF ANY NATURAL GAS	
	• • •	(Impoundments or Pits)		Name:	
	te: Anne Spencer	/		Address:	
	ress: 402 James Street			#DI	
ACM	Aartinsville, WV 26155			*Please attach additional forms if necessary	

WW-6A (8-13)

OPERATOR WELL NO. Well Pad Name: Spencer

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.

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

Well Location Restrictions

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

WW-6A (8-13) API NO. 47-95 - DAY 95
OPERATOR WELL NO. 1UH
Well Pad Name: Spencer

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:

Office of Oil and Gas

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

JAN 1 2 2018

WV Department of Environmental Protection

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. 47-95 - 62495
OPERATOR WELL NO. 10H
Well Pad Name: Spencer

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.

RECEIVED
Office of Oil and Gas

JAN 1 2 2018

WV Department of Environmental Protection WW-6A (8-13)

API NO. 47-95 - DQU 95
OPERATOR WELL NO. 10H
Well Pad Name: Spencer

Notice is hereby given by:

Well Operator: Triad Hunter, LLC

Telephone: 740-868-1324
Email: mhoran@brmresources.com

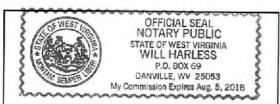
Address: 125 Putnam Street

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 deprivacyofficer@wv.gov.



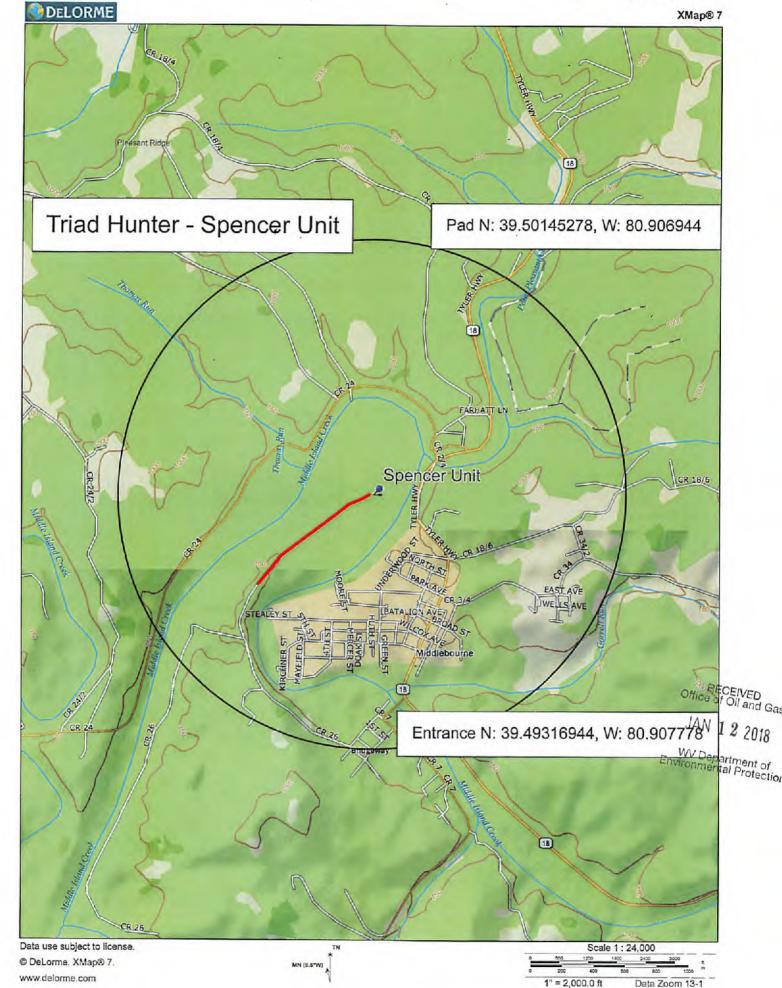
Subscribed and sworn before me this 21 day of 12, 2017

My Commission Expires Aug. 5, 2018

RECEIVED Office of Oil and Gas

JAN 1 2 2018

WV Department of Environmental Protection



	98-02-44:
Operator Well No.	1UH

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.

Delivery me	thod pursua	nt to West Virginia Code § 22-0	5A-16(b)	
☐ HAND		CERTIFIED MAIL		
DELIVI		RETURN RECEIPT REQUI	ESTED	
receipt reque drilling a hor of this subsec subsection m	sted or hand izontal well: tion as of th ay be waived	delivery, give the surface owner Provided. That notice given pure date the notice was provided to I in writing by the surface owner.	notice of its intent to enter upon the rsuant to subsection (a), section to the surface owner: Provided, how	an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirement wever, That the notice requirements of this tude the name, address, telephone number or's authorized representative.
Notice is he	reby provi	ded to the SURFACE OWN		
Name: Anne Sp		THE RESERVE OF THE PROPERTY OF THE PERSON OF	Name:	
Address: 402 New Martinsville.			Address:	
Pursuant to V the surface or	Vest Virginia wner's land	a Code § 22-6A-16(b), notice is b for the purpose of drilling a horizon	ontal well on the tract of land as fo	
Notice is he Pursuant to V the surface of State: County: District: Quadrangle: Watershed:	Vest Virginia	n Code § 22-6A-16(b), notice is before the purpose of drilling a horize	nereby given that the undersigned ontal well on the tract of land as for UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:	well operator has an intent to enter upo llows: 507968.7' 4372419.2' County Road 26 Spencer
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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-6A5 (1/12) Operator Well No. Spencer 1UH

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

Well Operator: Triad Hunter, LLC Address: 125 Putnam Street JAN 12 Telephone: 740-374-2940 Marietta, OH 45750	Delivery me	thod nursuan	t to West Virgini	a Code 8 2	2-6A-16(c)			
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mai return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice or 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: Anne Spencer Name: Anne Spencer Name: Address: 402 James Smeet Address: 402 James Smeet Notice is hereby given: Pursuant to West Virginian 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 Virginian 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 Virginian Code § 22-6A-16(c), institute of the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginian Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information requires to be provided by W. Va. Code § 22-6A-16(c), this notice shall include: (1)A copy of thi		snou pur suan	to meat might		- 0.7.10(0)			
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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 domages 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:	RETU	RN RECEIPT	REQUESTED		DELIVERY			
(at the address listed in the records of the sherize at the time of notice): Name: Anne Spencer Address: 402 James Street New Martinsville, WV 26155 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia UTM NAD 83 Easting: 50768.7 County: Tyler District: Elsworth Public Road Access: County Road 26 Quadrangle: Paden City Generally used farm name: Spencer Watershed: Middle Island Creek 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 requiree to be provided by W. Va. Code § 22-6A-16(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. Additiona 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. Office of Oil at Marietta, OH 45750	return receip the planned required to b drilling of a damages to t (d) The notice	of requested or operation. The provided by horizontal we the surface affe	hand delivery, give notice required subsection (b), se II; and (3) A pro- cted by oil and ga	the surface by this su ction ten of posed surface is operation	ce owner whose land bsection shall include this article to a surface use and compens s to the extent the da	will be used for le: (1) A copy ace owner whose ation agreement mages are com	or the drilling of a horizontal of this code section; (2) The se land will be used in conjunt at containing an offer of cor- pensable under article six-b of	well notice of ne information netion with the npensation for of this chapter.
Name: Anne Spencer Address: 402 James Street New Martinsville, WV 26155 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia Code § 22-6A-16(c), this notice shall include: County: Tyler District: Elisworth Public Road Access: Watershed: Middle Island Creek 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: Tried Hunter, LLC Address: 125 Putnam Street JAN 12 Marietta, OH 45750								
Address: 402 James Street Now Martinsville, WV 26155 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows: State: West Virginia UTM NAD 83 Easting: Northing: 4372419.2 District: Blaworth Public Road Access: County Road 26 Quadrangle: Padon City Watershed: Middle Island Crosek 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. Additiona 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/goil.and/gas/pages/default.aspx. Well Operator: Triad Hunter, LLC Address: 125 Putnam Street JAN 12 Marietta, OH 45750			records of the she	riff at the ti				
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Email: whatess@brmresources.com Facsimile: 740-374-5270 WV Departs	Notice is her Pursuant to Voperation on State: County: District: Quadrangle: Watershed: This Notice Pursuant to Voto be provide horizontal warface affect information headquarters gas/pages/de Well Operate	reby given: West Virginia on the surface of West Virginia Tyler Ellsworth Paden City Middle Island Cro Shall Include West Virginia led by W. Varell; and (3) A cred by oil and related to horis, located at 6 efault aspx.	Code § 22-6A-16 Code § 22-6A-16 Proposed surface gas operations to zontal drilling m O1 57th Street, Since	(c), this not 0(b) to a stuse and core of the extent	Address s hereby given that the f drilling a horizonta UTM NAD 8 Public Road 2 Generally use sice shall include: (1) urface owner whose in the damages are connected from the Secret eston, WV 25304 (1)	e undersigned l well on the tra 3 Easting: Northing: Access: d farm name: A copy of this land will be at containing at ampensable und ary, at the WV 304-926-0450	act of land as follows: 507968.7 4372419.2 County Road 26 Spencer code section; (2) The informated in conjunction with the offer of compensation for other article six-b of this chap or by visiting www.dep.w	nation required e drilling of a lamages to the ter. Additional ntal Protection V.govoiland Office of Oil and Gas JAN 12 2018

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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

May 17, 2018

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

> Jill M. Newman Deputy Commissioner

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

Subject: DOH Permit for the Spencer Unit Well Pad, Tyler County Spencer 1UH Well Site

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit # 06 -2011-0307 to Triad Hunter, LLC for access to the State Road for a well site located off of Tyler County Route 26 SLS.

The operator has signed an OIL AND GAS DISTRICT WIDE ROAD MAINTENANCE BONDING AGREEMENT for District 6 and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton Regional Maintenance Engineer

Central Oil & Gas Coordinator

Cc: Cecily Kern

Triad Hunter, LLC

CH, OM, D-6

File

CAS Numbers for frac additives:

1. Friction reducers, (PSC) AS-9810

	a.	Acrylamide,	CAS #26100-47-0	34-40%
2.	Scale in	hibitor, (PSC) AS-9220		
	a.	Organic phosphate,	CAS #11024-99-2	10-25%
3.	Flowba	ck surfactant + iron sta	bilizer, (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)

37 (#E PROJECT SHE B

VICINITY MAP HOT TO SCALE

CONSTRUCTION SEQUENCE:

- PHUOR TO STURFING ANY EXPTH DISTURBANCE ACTIVIES, THE CONTRACTOR SHILL CONTACT THE APPLICABLE ONE CALL SYSTEM FOR LOCATION OF ALL UTILITIES WITHIN THE VICINITY OF THE PROJECT.
- 2. MISTAUL PERIMETER EROSTON I SECTIVENT CONTROL MEASURES, AS SPECIFIED MEREIN.
- 1. STREE AND STOCKERS TOPSOIL WITHOUT CONSTRUCTION LIMITS.
- S. FINE GRADING AND PAYEMENT CONSTRUCTION.
- E. PLACE 4" OF TOPSCH IN AREAS DISTURBED BY CONSTRUCTION, SEED AND PLACE 4" OF FORSOL IN ARTHAS DISTURBED AT CONSTRUCTION, SEED MOMENTO PROPERTY AND ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION ADMINISTRATION OF PROPRESSION ADMINISTRATION ADMINISTRATION
- 1. DELL'INGLEOMPLETIONS DELPATIONS
- REMOVE ERASTON & SERIMENT CONTROL MEASURES ONCE SITE HAS STARK IZED 170% GROWTH.

TRIAD HUNTER, LLC

SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES, INC.

SPENCER WELL PAD

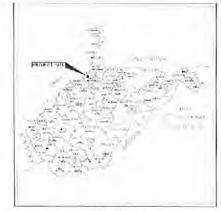
MAINTENANCE PLAN

TYLER COUNTY WEST VIRGINIA

SURFACE LOCATION COORDINATES (NAD 27) 39.503605° N, 80.916271° W (NAD 83) 39.501357° N, 80.907106° W

ACCESS LOCATION COORDINATES (NAD 27) 39.492809° N, 80.907988° W (NAD 83) 39.492883° N, 80.916180° W





LOCATION MAP

PROJECT DESCRIPTION:

EXISTING WELL PAD MAINTENANCE FLAN.

LAND OWNER:

ANNA L. SPENCER P.D.: 48-02-0014-0041-0000 48-02-0014-0014-0000

DEVELOPER:

TRIAD MINTER, LLC 125 PUTNAM ST MARIETTA, OH 45750 EMERGENCY CONTACTE SAM MURACET Pt 1-800-276-2845 Et SMIHACE SMIHAMIL SOURCES COM

DAH 5-18-18

DISCLAIMER:

ALL EXISTING FEATURES OFFISEMED IN THESE PLANS ARE FROM AN AS-BUILT SURVEY PERFORMED IN VARCH 2018. INFORMATION CONTAINED WITHIN ONLY REPRESENTS A MAINTENANCE PLAN FOR AN EXISTING VELL PAD. C.L. RODINSON ALL PROVIDE FIELD INSPECTION DURING MAINTENANCE ACTIVITIES.



SPENCER WELL PAD

TITLE SHEET

DATE:

5167016 SECTIMANN



KNOW WHAT'S BELOW CALL BEFORE YOU DIG! DIAL BIL OR 800-245-4848 WWW.WY8II.COM



WYDEP OOG ACCEPTED AS-BUILT 5 / 29 / 2018

