

#### 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

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

Monday, December 11, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for MELVIN KAHLE OHI 206H

47-069-00259-00-00

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: MELVIN KAHLE OHI 206H Farm Name: MELVIN W. AND CAROL M. KAHLE

U.S. WELL NUMBER: 47-069-00259-00-00 Horizontal 6A / New Drill

Date Issued: 12/11/2017

Promoting a healthy environment.

API Number: <u>69-00259</u>

#### 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: <u>69-00259</u>

#### **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.

WW-68 (04/15)

API NO. 47-069 OPERATOR WELL NO. Metrin Karle OHI 200H
Well Pad Name: Metrin Karle OHI

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

i) Well Operato	or: SWN Pro	duction C	o., LLC	4945129	924	69- Ohio	6- Triade	674- Wheeling
				Operato	r ID	County	District	Quadrangle
2) Operator's W	ell Number: 1	/lelvin Kat	ile OHI 2	106H v	Well Pad	Name: Melvii	n Kahle Oh	11
3) Farm Name/S	Surface Owner	Melvin W.	& Carol M.	Kahle Pui	blic Road	d Access: Cha	pel Hill Ro	ad
4) Elevation, cu	rrent ground:	1276'	Ele	evation, pr	oposed p	oost-construction	on: 1276'	
5) Well Type	(a) Gas	Х	Oil			rground Storag	***************************************	
	Other							
	(b)If Gas Si	nallow	X	D	еер			
		orizontal	X			4		0
6) Existing Pad:			···			$\mathcal{L}\mathcal{D}$		9.25.17
7) Proposed Tar Target Formatio	get Formation( n- Marcellus, Targ	(s), Depth( et Top TVD-	s), Antici 6328', Targ	pated Thic et Base TVD	ckness ar 0-6366°, Ar	nd Expected Practicipated Thickness	essure(s): ss- 38', Associ	ated Pressure- 4121
8) Proposed Tot	al Vertical Der	oth: 6340	•					
9) Formation at	Total Vertical	Depth: N	larcellus					
10) Proposed To	tal Measured I	Depth: 1	1213'					
l 1) Proposed Ho	orizontal Leg L	ength: 5	282.60'					
(2) Approximat	_	-	ths:	369'				
13) Method to D		_	•	/R-35 cor	noletion	report and fro	m nearby	water wells
(4) Approximat						· oportaile ite	milically	Water Wells
5) Approximate	e Coal Seam D	epths: 60	4'		*			
6) Approximate	e Depth to Pos	sible Void	(coal min	e, karst, o	ther): N	lay encounter	void at 604'	(Abandoned Mine)
17) Does Propos lirectly overlyin	ed well location	on contain o o an active	coal seam mine?	ıs Yes		No	x	
(a) If Yes, prov	ide Mine Info	: Name:						
		Depth:						
		Seam:		-				
		Owner:						
								•
							F	Page 1 of 3

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#### 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	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	670'	670'	609 sx/CTS
Coal	9 5/8"	New	J-55	36#	2019'	2019'	752 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	11213'	11213'	lead 810as Tat 116Cen/1307 Hottle Argen
Tubing	2 3/8"	New	P-110	4.7#	Approx. 6314'	Approx. 6314'	
Liners							

<i>⟨</i> <sup>6</sup> .	W	9.25
し		7.25.17

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4°	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193		
Liners							

#### **PACKERS**

Kind:	10K Arrowset AS-1X		
Sizes:	5 1/2"	7-754	
Depths Set:			 

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OPERATOR WELL NO. Melvin Kahle OHI 206H
Well Pad Name: Melvin Kahle OHI

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. \*\*If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (\*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

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

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.14
- 22) Area to be disturbed for well pad only, less access road (acres): 7.17
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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\*Note: Attach additional sheets as needed.

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Schlumberger Cement Additives

	Schlamberger Centent Additives				
	Product Name	Product Use	Chemical Name	CAS Number	
Surface	S001	accelerator	calcium chloride	10043-52-4	
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4	
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3	
, <u>, , , , , , , , , , , , , , , , , , </u>	D801	retarder	aromatic polymer derivative	propriatary	
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4	
	D167	fluid loss	aliphatic amide polymer	propriatary	
	D154	extender	non-crystalline silica	7631-86-9	
	D400	gas migration	boric acid	10043-35-3	
<b>8</b>	D046	antifoam	polypropylene glycol fullers earth (attapulgite)	25322-69-4 8031-18-3	
lon-Le	D201	retarder	chrystalline silica metal oxide	14808-60-7	
Production-Lead	D202	dispersant	sulphonated synthetic polymer formaldehyde (impurity)	propriatary propriatary propriatary	
	D046	antifoam	polypropylene glycol fullers earth (attapulgite)	25322-69-4 8031-18-3	
	D167	fluid loss	aliphatic amide polymer	propriatary	
吕			sodium polynaphthalene sulfonate	9008-63-3	
Ē	D065	dispersant	sodium sulfate	7757-82-6	
Production-Tall			chrystalline silica	14808-60-7	
큟	D201	retarder	metal oxide	propriatary	
<u> </u>	D153	anti-settling	chrystalline silica	14808-60-7	

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API Number 47 - 69 - 00259

Operator's Well No. Melvin Kale OHI 206H

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

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Umerator Name OWN Production Combany LLC	OD 0-1 40/540004
Operator Name SWN Production Company, LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Quadrangle Wheeling
Do you anticipate using more than 5,000 bbls of water to complet	te the proposed well work? Yes _ V No
Will a pit be used? Yes No ✓	
	system in place at this time- cuttings will be taken to a permitted landfill
	No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Land Application	NII
Underground Injection (UIC Permit N  Reuse (at API Number at next anticipated	d well, API # will be included with the WR-34/DDMR &/or permit addendum
Off Site Disposal (Supply form WW-	9 for disposal location)
Other (Explain flow back fluids will be p	put in steel tanks and reused or taken to a permitted disposal facility
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)	)? Air, freshwater, oil based, etcatdrill to KOP, fluid drill with SOBM from KCP to TD
-If oil based, what type? Synthetic, petroleum, etc. synthetic	hetic oil base
Additives to be used in drilling medium? see attached sheets	
Drill cuttings disposal method? Leave in pit, landfill, removed of	ffsite, etc. landfill
-If left in pit and plan to solidify what medium will be us	
	(A) 40 (A)
Argen Langfill 10072, American U2-12954, Coun	Try VVIGE 3839U/CID3839U, Pine Grove 13688
Permittee shall provide written notice to the Office of Oil and Gar	s of any load of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided w where it was properly disposed.	within 24 hours of rejection and the permittee shall also disclose
mere it was properly aroposed.	
Legitify that Lunderstand and scree to the terms and co.	
on August 1, 2005, by the Office of Oil and Gas of the West Virg	ginia Department of Environmental Protection. I understand that th
on August 1, 2005, by the Office of Oil and Gas of the West Virg provisions of the permit are enforceable by law. Violations of a law or regulation can lead to enforcement action.	ginia Department of Environmental Protection. I understand that the any term or condition of the general permit and/or other applicable.
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Operator's Well No. Melvin Kale OHI 206H

Proposed Revegetation Treatment: Acres Disturbed	8.14	Prevegetation pl	·
Lime as determined by pH test min. 2 Tons/acre or to co	orrect to pH 7.17		
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/acre		
Mulch Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Perma	nent
Seed Type lbs/acre **See Attachment		Seed Type	lbs/acre
Attach: Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, ereage, of the land application area. Thotocopied section of involved 7.5' topographic sheet and application area.	, include dimensions (L	x W x D) of the pit, and	dimensions (L x W), and are
Maps(s) of road, location, pit and proposed area for rovided). If water from the pit will be land applied, creage, of the land application area. Thotocopied section of involved 7.5' topographic she clan Approved by:	eet.	x W x D) of the pit, and	
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Apply @ 50lbs per acre

Oct. 15th- April 15th



NON-ORGANIC PROPERTIES

Seed Mixture: ROW Mix

Orchardgrass

**Fimothy** 

# **WVD Seeding Specification**

SWN Supplied

15% 15% 2% 2% 2%

Pelletized Lime @ 2 Tons per Acre Apply @ 2001bs per acre Oct. 15th- April 15th SWN Supplied (please allow 7 to 10 days for delivery) 20% 20% 20% 20% Seed Mixture: SWN Production Organic Mix Organic Fertilizer @ 2001bs per Acre Apply @ 100lbs per acre April 16th- Oct. 14th ORGANIC PROPERTIES Organic Red or White Clover Organic Red or White Clover Organic Perennial Ryegrass To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi\_eddy@swn.com Organic Timothy innoculated at 5x normal All legumes are

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30lbs per acre of Winter Wheat

Oct. 15th- April 15th PLUS Apply @ 200lbs per acre

> Apply @ 100lbs per acre April 16th- Oct. 14th

SOIL AMENDMENTS

10-20-20 Fertilizer

Pelletized Lime

2 %

Medium Red Clover

**Birdsfoot Trefoil** Rough Bluegrass

White Clover

**Brown Top Millet** Annual Ryegrass

Red Top

Office on Oil and Gas SEP 2 7 2017 **SWN Supplied** 20% 20% 10% 20% 2% 2% 2% 2% Seed Mixture: Wetland Mix Cosmos 'Sensation' **VA Wild Ryegrass Annual Ryegrass Solden Tickseed** Maryland Senna Showy Tickseed Fowl Bluegrass Redtop

\*unless otherwise dictated by soil test results

Apply @ 2 Tons per Acre

\*Apply @ 500lbs per Acre

Swamp Verbena Woolgrass Fox Sedge Soft Rush

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb

871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

1452' of 30' ROW/LOD is One Acre

eding Calculation Information

bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter

2.5% 2.5% 2.5%

> Apply @ 25lbs per acre April 16th- Oct. 14th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS

# special Considerations:

Wheat/ac).

nopsis:

-andowner Special Considerations including CREP program participants require additional tyidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

#### **Drilling Mediums**

Synthetic Oil

Brine

**Barite** 

Calcium Chloride

Lime

Organophilic Bentonite

**Primary and Secondary Emulsifiers** 

Gilsonite

Calcium Carbonate

**Friction Reducers** 

# MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: Melvin Kahle OHI 206H
Wheeling QUAD
Triadelphia DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by:  Dee Southall	Date:	1/23/2017
Title: Regulatory Supervisor	SWN P	roduction Co., LLC
Approved by:  Title: Oil + 600 Experts	Date:	2-8-17
Approved by:	Date:	
Title:		

SWN PRODUCTION COMPANY, LLC

69-00259 ELK LAKE SERVICES, LLC 280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303 SURFACE CESS ROAD Roneys Pe (±0.08 MILES) Valley Camp. Springdale BOTTOM Triadelphia Triadelphia 2000 2000 GRAPHIC SCALE IN FEET NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR
BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR
1AX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE
PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED. ACCE \$2\A1 5/201 LEGEND: PROPOSED SURFACE HOLF / BOTTOM HOLE - ACCESS ROAD TO PREV. SITE EXISTING / PRODUCING WELLHEAD LANDING POINT LOCATION = = = = = LEASE BOUNDARY LPL\* PROPOSED PATH WELL (FARM) NAME: WELL # 206H SERIAL # WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: MELVIN KAHLE OHI COUNTY DISTRICT; P.O. BOX 1300 JANE LEW, WV 26378 TRIADELPHIA OHIO COUNTY USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV & VALLEY GROVE, WV SURFACE OWNER: MELVIN W. AND CAROL M. KAHLE



WW-6A1 (5/13)

Operator's Well No. Melvin Kahle OHI 206H

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

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

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

Lease Name or

Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Exhibit

#### 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: SWN Production Company, LLC.

By:

Its:

Staff Landman

Page I of \_\_\_\_

Office of Oil and Gas.

SEP 27 2017

WV Detertment of Environmental / respection

EXHIBIT "A"

Attached to and made a part of the State of West Virginia Ottand Stat Permit Form, WW-GAL, by SWN Production Company, ILC, Operator

Median Exhibit Social

Monocounts, West Virginia

Obsociously, West Virginia

# TMP	SURFACE OWNER	DEEDED ACREAGE	I EASE #	LESSOR	LESSEE	ROYALTY	BK/NB
1) 677-170	Archin W, Raide, Jr., and Carol M. Kable, Ins veloc	24.933	000 012662	Metvin W. Sahle, Ir. and Carol M. Kahle, Ns wide	Great Lakes Energy Partners, LLC Chesapeake Appalacha, LLC SWN Production Company, LLC	14.00%	771/494 808/462 883/704
2) 6-17-171	Themas O. Dickey, H., Sue Ellen Bailes, David A.Dickey	89,950	725130-000	Mary Angela Dickey	Chesapeake Appalachia, LLC SWN Production Company, LLC	12.50%	792/213
3) 6-17-172.13	Robert T. Selak and Tammy L. Selak, bis wife	1.078	729404-000	Robert T. Selak and Tammy L. Selak, his wife	Chesapeake Appalachia, LLC SWN Preduction Company, LLC	18.00%	811/117
4) 6-17-172.1	Brism W. Vossen and Tambria K. Vossen, Busband and wife	33.500	728110-000	Brian W. Vossen and Tambria K. Vossen, husband and velfe	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	806/445
51 6-17-175	tours G. Brinkmeler, Fr. and J.A. Brinkmeler	45,238	735651-000	Louis Brinkmeier, Jr. A/K/A Louis G. Brinkmeier and Jeikida A. Brinkmeier, husband and wife	Chesapeake Appalachia, LLC SWM Production Company, LLC	18.00%	818/431
6 677-175.1	Louis Brinkmeier, fr.	11,013	735651-000	Louis Brinkmeier, Jr. A/K/A Louis G. Brinkmeier and Jeilinda A. Brinkmeier, husband and wile	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	818/431
7) 617-1724	Alcondant Life Baptist Charch	22.245	725344-003	Todd Abercrombis, D. David Stiles, and Michael One sapaalve Appainchs, LLC Simpton, Trustees for the Abundant Life Dapitst Church SWN Production Company, LLC	Chesapeake Appalachia, LLC ch SWN Production Company, LLC	12.50%	792/325
8) 6-17-172.12	Abundant Life Baptist Clarch	19.195	725144-000	Todd Aberzonbis, D. David Silles, and Michael Chespeake Appaiachis, ILC Simpson, Trattess for the Abundant III6 Baptist Church SWN Production Company, ILC	Chesapeake Appaiachia, LLC ch SWN Production Company, LLC	12.50%	792/325
9) 6-17-172.3	David A. Dickey and Margaret Graynovsky	5,034	735820-000	Henry C. Boyd, k., a married man dealing in his sole and separate property	Chesapeake Appalachia, U.C. SWN Production Company, U.C.	18,00%	822/31
10 6-17-172.11	William R. Bennett and Terry L. Bennett, his wife	2,594	735820-000	Henry C. Boyd, Jr., a married man dealing in his sole and separate property	Chesapeaka Appalachia, U.C. SWN Production Cempany, U.C.	18,00%	822/31
13) 6-17-172.5	David L. Furbee and Mary Leu Furbse, his wife 2.504	2.504	735820-000	Henry C. Boyd, Jr., a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	822/31
131 6-17-172.7	Thomas Scott Torrinack	4,454	735820-000	Henry C. Boyd, Jr., a married man dealing in his sole and separate property	Chesapeuka Appalachia, ILC SWN Production Company, ILC	18,00%	822/31 885/105
13  6-17-172.8	Themas S. Tominack and Martha D. Tominath, his write	4515	735820-000	Henry C. Boyd, Jr., a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLC	18.00%	822/31
14) 6-17-172.10	Mark A. Knox and Alaire S. Knox, bix wife	3,870	735820-000	Henry C. Boyd, It., a married man dealing in his sole and separate property	Chesapeake Appalachia, ILC SWN Production Company, ILC	18.00%	822/33
15) 6-17-172.37	Thomas L. Miller and Cathy Ann Miller, husband and wife	2,000	735643-000	Thomas L. Miller and Cathy Ann Miller, husband and wife	Cherapeake Appalachia, IIC SWN Production Company, IL	18.00%	818/648

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SEP 2 7 2017

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SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

September 25, 2017

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304

RE: SWN's proposed Melvin Kahle OHI 206H in Ohio County, West Virginia, Drilling under Chapel Hill Road.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Chapel Hill Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Nece

Robert Walter Staff Landman

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

10000 Energy Drive Spring, TX 77389-4954 R-A-W+°

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+®

RECEIVED Office of Oil and Gas

SEP 2 7 2017

V/V Decartment of Environ 15...t.! I rotection

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

Date of Notic	ce Certification:		API No. 4	7- 069 -
			Operator's	s Well No. Melvin Kahle OHI 206H
			Well Pad	Name: Melvin Kahle OHI
Notice has l	been given:			
Pursuant to th	ne provisions in West Virginia Code § 22-6.	A, the Operator has pro	ovided the rec	quired parties with the Notice Forms listed
below for the	tract of land as follows:	real spirite ways		
State:	WV	UTM NAD 83	Easting:	531957.98
County:	69- Ohio	UTWINAD 63	Northing:	4435790.02
District:	Triadelphia	Public Road Ac	cess:	Chapel Hill Road
Quadrangle:	Wheeling	Generally used t	farm name:	Melvin Kahle
Watershed:	Upper Ohio South			

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

Pursuant to West Virginia Code § 22-6A, the Opthat the Operator has properly served the require *PLEASE CHECK ALL THAT APPLY	erator has attached proof to this Notice Certification d parties with the following:	OOG OFFICE USE ONLY
☐ 1. NOTICE OF SEISMIC ACTIVITY or	☐ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/
☐ 2. NOTICE OF ENTRY FOR PLAT SURV	YEY or  NO PLAT SURVEY WAS CONDUCTED	☐ RECEIVED
■ 3. NOTICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
	☐ WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	
■ 4. NOTICE OF PLANNED OPERATION	Office of Committee	☐ RECEIVED
☐ 5. PUBLIC NOTICE	SEP 2 7 2017	RECEIVED
☐ 6. NOTICE OF APPLICATION	Privace and a men	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:

THEREFORE, I , 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: SWN Production Co., LLC Address: P.O. Box 1300 By: Jane Lew, WV 26378 Its: Facsimile: Telephone: 832-796-1614 Email: Dee\_Southall@swn.com ICIAL SEAL Subscribed and sworn before me this State of West Virginia BRITTANY R WOODY Notary Public 3302 Old Elkins Road Buckhannon WV 26201 My commission expires November 27, 2022

#### 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="deepprivacyofficer@wv.gov">deepprivacyofficer@wv.gov</a>.

Office of Cir and Class

SEP 2 7 2017

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API NO. 47- 069 - 00359 OPERATOR WELL NO. Melvin Kahle OHI 206H Well Pad Name: Melvin Kahle OHI

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

Noti	ce Time Requirement: n	notice shall be provide	d no later than the filing date of permit application.
	e of Notice 925/17 Da	nte Permit Applicatio	n Filed: 9 35 7
<b>V</b>	PERMIT FOR ANY	CERTIFICA	TE OF APPROVAL FOR THE
<u></u>	WELL WORK		CTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursuant to	o West Virginia Code	§ 22-6A-10(b)
	PERSONAL	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sedin the si oil ar describe soli ar describe soli ar describe well impo have proviprope subservector provide code water	ment control plan required a urface of the tract on which and gas leasehold being deve- ribed in the erosion and sec- ator or lessee, in the event to coal seams; (4) The owner work, if the surface tract is undment or pit as describe a water well, spring or wated de water for consumption osed well work activity is to ection (b) of this section had do of the sheriff required to sist of the section of this article to the co- er R. § 35-8-5.7.a requires, repurveyor or surface owner	by section seven of this in the well is or is propo- eloped by the proposed diment control plan sub- the tract of land on white sof record of the surfact to be used for the place din section nine of this ter supply source located by humans or domestic to take place. (c)(1) If not dinterests in the lands to be maintained pursual contrary, notice to a lien in part, that the operator subject to notice and	res a receipt or signature confirmation, copies of the application, the erosion and article, and the well plat to each of the following persons: (1) The owners of record of sed to be located; (2) The owners of record of the surface tract or tracts overlying the well work, if the surface tract is to be used for roads or other land disturbance as mitted pursuant to subsection (c), section seven of this article; (3) The coal owner, on the well proposed to be drilled is located [sic] is known to be underlain by one or ce tract or tracts overlying the oil and gas leasehold being developed by the proposed ement, construction, enlargement, alteration, repair, removal or abandonment of any article; (5) Any surface owner or water purveyor who is known to the applicant to d within one thousand five hundred feet of the center of the well pad which is used to animals; and (6) The operator of any natural gas storage field within which the force than three tenants in common or other co-owners of interests described in the notes than three tenants in common or other co-owners of interests described in the notes applicant may serve the documents required upon the person described in the not to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. r shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water testing as provided in section 15 of this rule.
	JRFACE OWNER(s)	SSI Notice MECS	COAL OWNER OR LESSEE
	e: Mevlin W. Kahle & Carol M. Ka	ahle	Name: Alliance Resources GP, LLC
Addi	ress: 28 Maple Ave		Address: 2596 Battle Run Road
	ing, WV 26003		Triadelphia, WV 26059
Nam	**		☐ COAL OPERATOR
Addı	ress:		Name:
	IND CONTROL OF	I W OI BY	Address:
	JRFACE OWNER(s) (Ro		
Nam	e;		☑ SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)
Addi	ress:		
Maria			
Nam			Address:
Addi	ress:		OPERATOR OF ANY NATURAL GAS STORAGE FIELD
12 17	JRFACE OWNER(s) (Im	noundments or Pite)	
_			Name:Address:
Add	e:		TAME CO.
rudi	- CONT		*Please attach additional forms if necessary
			DECENSED.
			Office wy Carend Ges

SEP 2 7 2017

API NO, 47- 069 - 00 259
OPERATOR WELL NO. Melvin Kahle OHI 206H
Well Pad Name: Melvin Kahle OHI

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

Notice Time Require	ment: notice shall be prov	ded no later than the filing date of permit application.
		A
Date of Notice:	Date Permit Applica	tion Filed:
Notice of:		
✓ PERMIT FOR A	NY CERTIF	CATE OF APPROVAL FOR THE
WELL WORK		RUCTION OF AN IMPOUNDMENT OR PIT
WELL WORK	CONST	ROCTION OF AN INFOUNDMENT OR FIT
Delivery method pur	suant to West Virginia C	ode § 22-6A-10(b)
☐ PERSONAL	✓ REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
		n the filing date of the application, the applicant for a permit for any well work or for a
the surface of the tract- oil and gas leasehold be described in the erosion operator or lessee, in the more coal seams; (4) The well work, if the surface impoundment or pit as have a water well, spring provide water for consi- proposed well work act subsection (b) of this sur- records of the sheriff re- provision of this article Code R. § 35-8-5.7.a. re-	on which the well is or is pre- eing developed by the propo- n and sediment control plan- ne event the tract of land on whe he owners of record of the si- te tract is to be used for the pre- described in section nine of ing or water supply source local amption by humans or dome tivity is to take place. (c)(1) ection hold interests in the la- equired to be maintained pure to the contrary, notice to a lequires, in part, that the ope	his article, and the well plat to each of the following persons: (1) The owners of record of posed to be located; (2) The owners of record of the surface tract or tracts overlying the red well work, if the surface tract is to be used for roads or other land disturbance as ubmitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or reace tract or tracts overlying the oil and gas leasehold being developed by the proposed accement, construction, enlargement, alteration, repair, removal or abandonment of any his article; (5) Any surface owner or water purveyor who is known to the applicant to ated within one thousand five hundred feet of the center of the well pad which is used to the animals; and (6) The operator of any natural gas storage field within which the fit more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the uant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any en holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. ator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any the water testing as provided in section 15 of this rule.
☑ Application Notic	e ☑ WSSP Notice ☑ E&	S Plan Notice  Well Plat Notice is hereby provided to:
SURFACE OWNER	R(s)	☐ COAL OWNER OR LESSEE
Name:	407	Name: Melvin W. Kahle, Jr, & Carol M. Kahle
Address:		Address: 28 Maple Ave.
		Wheeling, WV 26003
Name:		☐ COAL OPERATOR
		Name:
		Address:
TI SURFACE OWNER	R(s) (Road and/or Other Di	sturbance)
Address:		
		Nama: Saa Attachment #1
Address:		And makes A.
1 17/30 7 OF L		□ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER	R(s) (Impoundments or Pits	
		. 11
Control of		*Please attach additional forms if necessary
		P7750/50
		Office on an ind Oza

SEP 2 7 2017 12/15/2017

Attachment #1

Water Purveyors within 1500' - Melvin Kahle OHI Pad

LANDOWNER

SOURCE WELL DEPTH

Address

Melvin Kahle Jr

3 Springs

28 Maple Avenue Wheeling, WV 26003

Connie Davis

Spring

278 McNash Road Triadelphia, WV 26059

PECEL/ED Office of Oil and Gas

SEP 2 7 2017

VA/ Department of Environmental Protection

WW-6A (8-13)



API NO. 47- 669 - 00 3.59
OPERATOR WELL NO. Malvin Kahla OHI 208H
Well Pad Name: Melvin Kahle OHI

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 bundred 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. (c) 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

API NO. 47-069 OPERATOR WELL NO. Melvin Kahle OHI 206H

Well Pad Name: Melvin Kahle OHI

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: RECTIVED
Once of the and Cas

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

SEP 27 2017

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.

#### 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.



WW-6A (8-13) API NO. 47-069 - 00359
OPERATOR WELL NO. Melvin Kahle OHI 206H
Well Pad Name: Melvin Kahle OHI

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 832-796-1000 Email: Dee\_Southall@swn.com Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile:

#### Oil and Gas Privacy Notice:

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

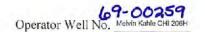


Subscribed and sworn before me this day of the Motary Public My Commission Expires

Office of Off and Gas

SEP 2 7 2017

VAV Description of Environmental Protection



# 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	e: 02/07/2017 Date Pe	ermit Application Filed:	Ballene LER
			Office of Do and Cas
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	SEP 2 7 2017
☐ HAND	CERTIFIED MAIL		02. 2. 20.
DELIVE		EQUESTED	(m/p. reservol.
eceipt reques drilling a hori of this subsec- subsection ma	ted or hand delivery, give the surface over zontal well: <i>Provided</i> . That notice give tion as of the date the notice was provide	when notice of its intent to enter upon the pursuant to subsection (a), section to ed to the surface owner: <i>Provided, how</i> when. The notice, if required, shall include:	an operator shall, by certified mail return ne surface owner's land for the purpose of n of this article satisfies the requirement vever, That the notice requirements of thit ude the name, address, telephone number r's authorized representative.
	reby provided to the SURFACE O'		
Name: Melvin W		Name:	
Address: 28 Ma Wheeling, WV 26		Address:	
Pursuant to Whe surface ov	est Virginia Code § 22-6A-16(b), notice vner's land for the purpose of drilling a h	orizontal well on the tract of land as fo	
Pursuant to Whe surface ow State: County: District:	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a harmonic West Virginia Ohio Triadelphia	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access:	
	Vest Virginia Code § 22-6A-16(b), notice wher's land for the purpose of drilling a handle West Virginia Ohio	orizontal well on the tract of land as fo  UTM NAD 83  Easting: Northing:	Hows: 531,957.98 4,435,790.02 Chapel Hill Road
Pursuant to Whe surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vaccimile numerelated to hor	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a harmonic viner's land for the purpose of drilling a harmonic viner's land for the purpose of drilling a harmonic viner's land line vine vine vine vine vine vine vine v	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addresoperator and the operator's authorized the Secretary, at the WV Department of	Hows: 531,957.98 4,435,790.02 Chapel Hill Road
Pursuant to Whe surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vacsimile numerated to horocated at 601 Notice is her	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a hardward virginia  Ohio  Triadelphia  Wheeling, WV  Upper Ohio South  Shall Include:  West Virginia Code § 22-6A-16(b), this ober and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addresoperator and the operator's authorized the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	Illows: 531,957.98  4,435,790.02  Chapel Hill Road  Melvin Kahle  ess, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Whe surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vifacsimile numelated to horocated at 601 Notice is her Well Operator	Vest Virginia Code § 22-6A-16(b), notice vener's land for the purpose of drilling a hardward virginia  Ohio  Triadelphia  Wheeling, WV  Upper Ohio South  Shall Include:  West Virginia Code § 22-6A-16(b), this ober and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addresoperator and the operator's authorized Representative:  Authorized Representative:	Illows: 531,957.98 4,435,790.02 Chapel Hill Road Melvin Kahle  ess, telephone number, and if available ad representative. Additional information of Environmental Protection headquarters ap.wv.gov/oil-and-gas/pages/default.aspx.  Michael Yates
Pursuant to Whe surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vacsimile numerated to horocated at 601 Notice is her	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a hardward virginia  Ohio  Triadelphia  Wheeling, WV  Upper Ohio South  Shall Include:  Vest Virginia Code § 22-6A-16(b), this idea and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC  PO Box 1300, 179 Innovation Drive	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addresoperator and the operator's authorized the Secretary, at the WV Department of (304-926-0450) or by visiting www.de	Illows: 531,957.98 4,435,790.02 Chapel Hill Road Melvin Kahle  ess, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters: p.wv.gov/oil-and-gas/pages/default.aspx  Michael Yates PO Box 1300, 179 Innovation Drive
Pursuant to Whe surface own State: County: County: District: Quadrangle: Watershed:  This Notice Pursuant to Variety of the county of the coun	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a hardward virginia  Ohio  Triadelphia  Wheeling, WV  Upper Ohio South  Shall Include:  West Virginia Code § 22-6A-16(b), this liber and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC  PO Box 1300, 179 Innovation Drive  Jane Lew, WV 26378	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, address operator and the operator's authorized Representative: Authorized Representative: Address:	Illows: 531,957.98 4,435,790.02 Chapel Hill Road Melvin Kahle  ess, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters ep.wv.gov/oil-and-gas/pages/default.aspx.  Michael Yates PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378
Pursuant to Whe surface ow State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vifacsimile numelated to horocated at 601 Notice is her Well Operator	Vest Virginia Code § 22-6A-16(b), notice viner's land for the purpose of drilling a hardward virginia  Ohio  Triadelphia  Wheeling, WV  Upper Ohio South  Shall Include:  Vest Virginia Code § 22-6A-16(b), this idea and electronic mail address of the izontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304  reby given by:  SWN Production Company, LLC  PO Box 1300, 179 Innovation Drive	orizontal well on the tract of land as fo  UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name:  s notice shall include the name, addresoperator and the operator's authorized Representative:  Authorized Representative:	Illows: 531,957.98 4,435,790.02 Chapel Hill Road Melvin Kahle  ess, telephone number, and if available ed representative. Additional information of Environmental Protection headquarters: p.wv.gov/oil-and-gas/pages/default.aspx.  Michael Yates PO Box 1300, 179 Innovation Drive

#### 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="https://deprivacyofficer@wv.gov">deprivacyofficer@wv.gov</a>.

WW-6A5 (1/12) Operator Well No. Melvin Kahle CHI 206H

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

Notice Time Date of Noti	Requirement: notice shall be pr ce: 02/07/2017 Date F		later than the filing plication Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia	Code § 2	2-6A-16(c)		
■ CERTI	FIED MAIL		HAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned of required to be drilling of a damages to the	t requested or hand delivery, give operation. The notice required be provided by subsection (b), sect horizontal well; and (3) A propo- tion of the surface affected by oil and gas	the surface by this surion ten of sed surface operation:	be owner whose land bsection shall include this article to a surface use and compens to the extent the da	will be used for de: (1) A copy ace owner whos ation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE	OWNER	a(s)		
The state of the s	ss listed in the records of the sheri	ff at the ti			
	V. & Carol M. Kahle	_ /	Name:		
Address: 28 M Wheeling, WV 26		_ ′	Address	i:	
operation on State:	the surface owner's land for the West Virginia			l well on the tra Easting:	well operator has developed a planned act of land as follows: 531,957.98
County:	Ohio			Northing:	4,435,790.02
District:	Triadelphia		_ Public Road		Chapel Hill Road
Quadrangle: Watershed:	Wheeling, WV Upper Ohio South		_ Generally use	ed farm name:	Melvin Kahle
Pursuant to V to be provide horizontal we surface affect information is	ed by W. Va. Code § 22-6A-100 ell; and (3) A proposed surface us ted by oil and gas operations to related to horizontal drilling may, located at 601 57th Street, SE,	b) to a suse and control the extent	urface owner whose inpensation agreement the damages are conned from the Secret	land will be untracted the containing are mpensable undary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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>.





#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

#### **Division of Highways**

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

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

February 8, 2017

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 Melvin Kahle Pad, Ohio County Melvin Kahle OHI 206H

47-069-00259

RECEIVED Office of Oil and Gas

SEP 2 7 2017

V/V Department of Environmental Protection

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0668 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 8 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office Oil &Gas Coordinator

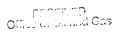
Day K. Clayton

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File



#### SEP 27 2817

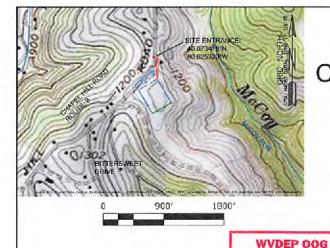
Product Name	Product Use	Vol Description of Chemical Name	CAS Number
		Hydrogen Peroxide	7722-84-1
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion	Scale Inhibitor	Methanol	67-56-1
Technologies)	Scale Illinoitor	Nonylphenol Ethoxylate	Proprietary
	Biocide	Glutaraldehyde	111-30-8
Bactron K-139 (Champion Technologies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion	Biocide	Methanol	67-56-1
Technologies)		Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1
		Methanol	67-56-1
A264 (Schlumberger)	Corrosion	Aliphatic Acids	Proprietary
A204 (Schlumberger)	Inhibitor	Prop-2-yn-1-ol	107-19-7
		Aliphatic Alcohols, Ethoxylated #1	Proprietary
Myacide GA 25 (Schlumberger)	Biocide	Water	7732-18-5
IVIYACIDE GA 23 (Schlumberger)	Biocide	Glutaral	111-30-8
Scale Inhibitor B317 (Schlumberger)	Scale Inhibitor	Trisodium Ortho Phosphate	7601-54-9
ocate minibitor poly (schlamberger)	Scale Inhibitor	Ethane-1,2-diol	107-21-1
H215 (Schlumberger)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0
J218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
EB-Clean* J475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0
Water Gelling Agent J580 (Schlumberger)	Gel	Carbohydrate Polymer	Proprietary
Friction Reducer J609W	Friction	Ammonium Sulfate	7783-20-2
(Schlumberger)	Reducer	Urea	57-13-6
Cracilinkan IC10 (a.v. )	Crosslinker	Potassium Hydroxide	1310-58-3
Crosslinker J610 (Schlumberger)	Crossiinker	Aliphatic Polyol	Proprietary
Iron Stabilizer L58 (Schlumberger)	Iron Stabilizer	Sodium Erythorbate	6381-77-7
40/70-Mesh Sand S012 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
Sand S100 (Schlumberger)	Sand	Crystalline Silica	14808-60-7
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
SSA-2 (Halliburton)	Sand	Crystalline Silica	14808-60-7
FR-76 (Halliburton)	Friction Reducer	Inorganic salt Hydrotreated light petroleum distillate	64742-47-8
LCA-1 (Halliburton)		Hydrotreated light petroleum distillate	Proprietary
SP BREAKER (Halliburton)	Breaker	Sodium Persulfate	7775-27-1

Product Name	Product Use	Chemical Name	CAS Number
HAI-150E (Halliburton)		Methanol	
	Corrosion	Aliphatic Acids	─ NA
	Inhibitor	Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	
Hydrochloric Acid 10-30% (Halliburton)		Hydrochloric Acid	7647-01-0
WG-36 Gelling Agent (Halliburton)	Gel	Polysaccharide	9000-30-0
BC-140C (Halliburton)	Crosslinker		NA

PENTIVED Office of Oil and Cas

SEP 2 7 2017

VIV For orthograph of Environment of Environment of Proposition



#### MELVIN KAHLE PAD "A" CONSTRUCTION AND RECLAMATION PLAN **AS-BUILT** TRIADELPHIA DISTRICT OHIO COUNTY, WV **MARCH 2017**

ACCEPTED AS-BUILT 5/3/2017

PROJECT LOCATION

TOTAL DISTURBED AREA: 8.14 ACRES ROAD DISTURBED AREA: 0.97 ACRES PAD DISTURBED AREA: 7.17 ACRES

COORDINATES:

LOD

SITE ENTRANCE (NAD83) LAT: 40.073418 LONG: 80.625320

CENTER OF PAD (NAD83) LAT: 40.071685 LONG: 80.625227

GATHERING AREA (NAD83) LAT: 40.073418 LONG: 80.625320

EXISTING WELL 3H (NAD83) LAT: 40.071864 LONG: 80.625292 API: 069-00124

EXISTING WELL 8H (NAD83) LAT: 40.071833 LONG: 80.625269 API: 069-00070

SHEET INDEX.
TS1. TITLE SHEET

EP2.1 EVACUATION ROUTE/PREVAILING WIND EP2.2 EVACUATION ROUTE/PREVAILING WIND

AS3.1 ASBUILT OVERVIEW

AS3.2 ASBULT

AS3.3 ASBULT

ASR4.1 CONSTRUCTION AND RECLAMATION

ACCESS ROAD PROFILE

MRD5.1 RECLAMATION PLAN OVERVIEW

MRD5.2 RECLAMATION PLAN MRD5.3 RECLAMATION PLAN

MRD6.1 RECLAMATION DETAILS

MRD6.2 RECLAMATION DETAILS

CALL BEFORE Dial 811 or YOUDIG! 800.245.4848



DATE

CHECKED BY

2015-10-17 DRAWN BY

MCH



260 Indian Springs Road, Suite Indiana, PA 15701 Prone: (724) 463-7303



MELVIN KAHLE PAD "A"

TRIADELPHIA DISTRICT OHIO COUNTY WEST VIRGINIA

TITLE SHEET

TSI