

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

January 21, 2016

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-6900205, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chie

Operator's Well No: SHAWN COUCH OHI 6H

Farm Name: COUCH, SHAWN W. TRUST

API Well Number: 47-6900205

Permit Type: Horizontal 6A Well

Date Issued: 01/21/2016

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. <u>Failure to adhere to the specified permit</u> conditions may result in enforcement action.

CONDITIONS

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

API NO. 47- 69 OPERATOR WELL NO. Shawn Couch OHI 6H
Well Pad Name: Shawn Couch OHI Pad

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

1) Well Operator: SWN	Production Co., LLC	494512924	69-Ohio	3-Liberty 247-Bethany
-, F		Operator ID	County	District Quadrangle
2) Operator's Well Numb	er: Shawn Couch OH	6H Well P	ad Name: Sha	awn Couch OHI Pad
3) Farm Name/Surface Ov	wner: Shawn W. Couch	Trust Public Ro	oad Access: W	eidmans Run Road
4) Elevation, current grou	nd: <u>1247</u> El	evation, propose	d post-construc	etion: 1247
5) Well Type (a) Gas Other	x Oil _	Un-	derground Stor	age
(b)If Gas	Shallow x	Deep		
	Horizontal x			C. 7580 116.15
6) Existing Pad: Yes or No	o Yes		_	116.15
7) Proposed Target Format Target Formation- Marcellus				d Pressure(s): ness- 40', Associated Pressure- 4160
8) Proposed Total Vertica	l Depth: 6187'			
9) Formation at Total Ver	tical Depth: Marcellus	3		
10) Proposed Total Measu	red Depth: 15,589'			
11) Proposed Horizontal I	Leg Length: 9021.3'			
12) Approximate Fresh W	ater Strata Depths:	300'		
13) Method to Determine	Fresh Water Depths:	wireline logs		
14) Approximate Saltwate	er Depths: 1150'			
15) Approximate Coal Sea	am Depths: 453'			
16) Approximate Depth to	Possible Void (coal mi	ine, karst, other):	None that we	e are aware of.
17) Does Proposed well lo directly overlying or adjac		ms Yes	N	lo X
(a) If Yes, provide Mine	Info: Name:			Mederved
	Depth:			NOV 2 3 2015
	Seam:			1101 = 2
	Owner:			Office of Oil and Gas

OPERATOR WELL NO. Shawn Couch OHI 6H Well Pad Name: Shawn Couch OHI Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5# 4847	Das 400'	400'	375 sx/CTS
Coal	9 5/8"	New	J-55	40#36# D	49 1858'	1858'	712 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	15,589	15,589	Load 943 sx tail 2111 sx/100 inside intern
Tubing	2 3/8'	New	P-110	4.7#	Approx. 6187'	Approx. 6187'	
Liners		-					

C. BSO 11.6.1

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	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	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

	PACKI	ERS 4706900205
Kind:	10K Arrowset AS1-X	Ronginad
Sizes:	5 1/2"	The said want of the third thank
Depths Set:		NOV 2 3 2015

Office of Oil and Gas WV Dept, of Environmental Protection

WW-6B	
(10/14)	

API NO. 47- 69 OPERATOR WELL NO. Shawn Couch OHI 6H
Well Pad Name: Shawn Couch OHI Pad

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 50' below void nor more than 100' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'-75' 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):
- 22) Area to be disturbed for well pad only, less access road (acres):
- 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 ***

900205

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.

NOV 2 3 2015

Office of Oil and Gas
WV Dept, of Environmental Protection

*Note: Attach additional sheets as needed.

Schlumberger Cement Additives

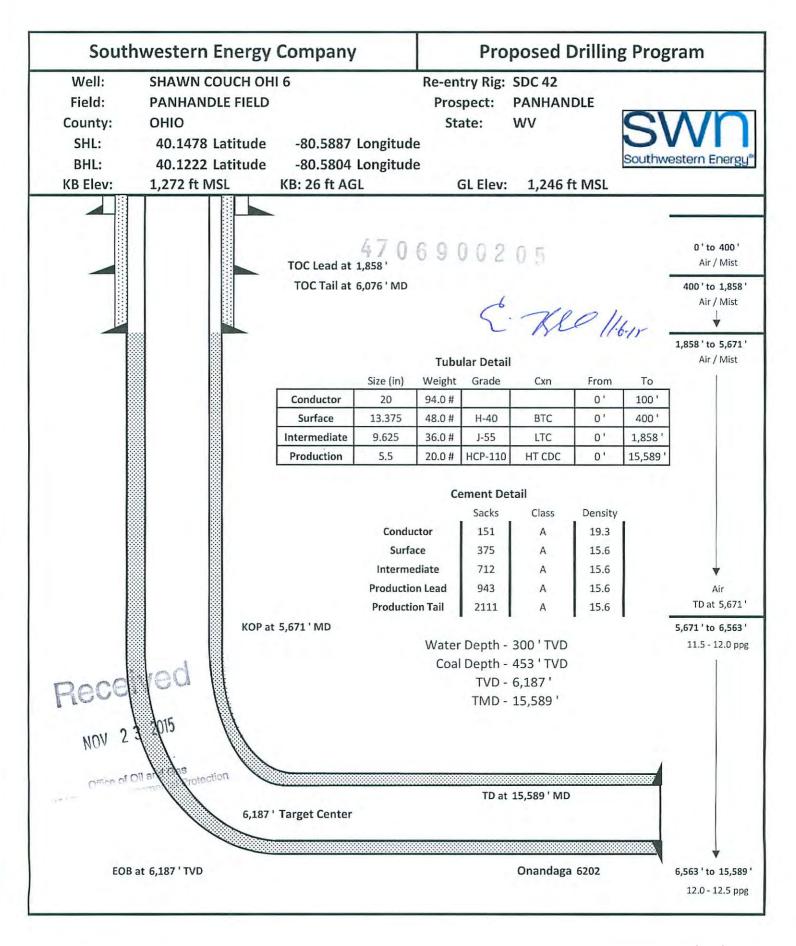
		`	ger cement Additives	1
	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	5001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
₽ 5	D801	retarder	aromatic polymer derivative	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
			polypropylene glycol	25322-69-4
ad	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
tior	D201	retarder	metal oxide	propriatary
onp			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
· ·			sodium polynaphthalene sulfonate	9008-63-3
n-Ta	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail			chrystalline silica	14808-60-7
oduc	D201	retarder	metal oxide	propriatary
Pro	D153	anti-settling	chrystalline silica	14808-60-7

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NOV 2 3 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



API Number 47 -	69	-
Operator's	Well No.	Shawn Couch OHI 6H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_SWN Production Co	o., LLC	OP Code 49447757
Watershed (HUC 10)_Weidmans	Run (Quadrangle 247-Bethany
Elevation 12 47'	County 69-Ohio	District 3-Liberty
Do you anticipate using more than Will a pit be used? Yes	n 5,000 bbls of water to complete the	
If so, please describe ant	icipated pit waste:closed loop syste	m in place at this time- cuttings will be taken to a permitted landfill.
Will a synthetic liner be	used in the pit? Yes No _	If so, what ml.?
Proposed Disposal Metho	od For Treated Pit Wastes:	
Underg Reuse Off Sit	(at API Number_at next anticipated well, e Disposal (Supply form WW-9 for	ber2D0072539/ 2D0413175/ 2D0610306/ 2D0610317) API# will be included with the WR-34/DDMR &/or permit addendum) disposal location) 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 the	nis well (vertical and horizontal)? A	ir, freshwater, oil based, etc. air drill to KOP. Fluid drill with SOBM from KOP to TD
	Synthetic, petroleum, etc.Synthetic O	il Base
Additives to be used in drilling me		6706900205
Drill cuttings disposal method? L	eave in pit, landfill, removed offsite	, etc. landfill
-If left in pit and plan to	solidify what medium will be used?	(cement, lime, sawdust)
I certify that I understand on August 1, 2005, by the Office of provisions of the permit are enfort law or regulation can lead to enfort application form and all attachmobatining the information, I beli	d and agree to the terms and condition of Oil and Gas of the West Virginia reeable by law. Violations of any treement action. of law that I have personally example thereto and that, based on a	A902, Northwestern SWF-1025, Short Creek 1034/WV0109517/CID28726, Carton Limestone 28726/CID28726 VIGE 3839U/CID3839U, PINE GROVE 13688 ons of the GENERAL WATER POLLUTION PERMIT issued Department of Environmental Protection. I understand that the erm or condition of the general permit and/or other applicable sined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for courate, and complete. I am aware that there are significant fine or imprisonment.
Company Official Signature		NOV 2 3 2015
Company Official (Typed Name)	Dee Southall	
Company Official Title Regulator	ry Supervisor	Office of Oil and Gas WV Dept. of Environmental Protection
Subscribed and sworn before me to	his 6th day of M	ember 2016 Official SEAL
My commission expires \(\)	1999	Notary Public. Notary Public. Notary Public. State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhan 017 1/2 2/2 012

Field Reviewed?

Proposed Revegetation Treat	ment: Acres Disturbed	Prevegetation p	Н
Limeas determined by pH test	Tons/acre or to corre		
Fertilizer type	0-20		
Fertilizer amount_6	00	lbs/acre	
Mulch_ Hay/Stra		_Tons/acre	
		Seed Mixtures	
Ter	mporary	Perm	anent
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
		DalTar	4.5
Red Top	15	Red Top	15
Orchard Grass Attach: Drawing(s) of road, location, provided)	pit and proposed area for	Orchard Grass	20
Attach: Drawing(s) of road, location, provided) Photocopied section of involv	pit and proposed area for red 7.5' topographic sheet.	Orchard Grass	20 acluding this info have be
Orchard Grass	pit and proposed area for red 7.5' topographic sheet.	Orchard Grass	20 acluding this info have be
Orchard Grass Attach: Drawing(s) of road, location, provided) Photocopied section of involve Plan Approved by:	pit and proposed area for red 7.5' topographic sheet.	Orchard Grass	20 acluding this info have be
Attach: Drawing(s) of road, location, provided) Photocopied section of involve Plan Approved by:	pit and proposed area for red 7.5' topographic sheet.	Orchard Grass land application (unless engineered plans in	20 acluding this info have be

) No

V) Yes



THRASHER

ADJOINING OWNER INSET

THE THRASHER GROUP, INC. 600 WHITE DAKS BLVD. BRIDGEPORT, WV 26330 PHONE 304-624-4108

RACT	SURFACE OWNER	TAX PARCEL	ACRES
Α	SHAWN W. COUCH TRUST	3-L4011000010000	1.16
В	PAUL TYRNA & RHONDA TYRNA	3-L4011400000000	1.24
C	MARK E. NORMAN	3-L4011000020000	2.44
D	JAMES W. LOWE & HELEN L LOWE	3-L4011800020000	15.00
E	KEVIN L. KIMMINS & RHONDA L. KIMMINS	3-L4011800030000	29.00
F	DONALD T. PIKO	3-L50016000000000	10.91
G	DAVID ALAN BELLANCO & DEBRA KAY BELLANCO	3-L5002000110000	2.87
Н	JOSEPH F. BIPPUS, SR., ET AL	3-L5002000010000	
1	TUNNEL RIDGE LLC	3-L4012000030000	6.12
J	JOSEPH F. BIPPUS, SR., ET AL	3-L8000100050000	96.05
K	HERBERT P. MINCH, JR. & ASHLEA R. MINCH	3-L4012000020000	1,45
L	CARL HARTLIEB & ELSIE HARTLIEB	3-L4012000010000	1.29
M	CINDY L LINTON & B. A. FARMER (LIFE ESTATE)	3-L70050000000000	1.00
N	RONALD D. FEKETE & MARY LEE FEKETE	3-L70005000000000	
	WENDY J. DAVIS		2.49
0		3-L7000600020000	
-	WARREN E. MCLAUGHLIN, JR.	3-L7000700000000	2.73
0	RUSSEL E. MYERS & BETTY JANE MYERS	3-L7000600010000	
R	RUSSEL E. MYERS & BETTY JANE MYERS	3-1,7004900000000	0.59
S	JOSEPH F. BIPPUS SR. & ICY M. BIPPUS (LIFE ESTATE); JOSEPH F. BIPPUS JR., MARY FEKETE & BETTY ANN SMITH (REMAINDERNEN)	3-L8000100030000	1.45
т	JOSEPH F. BIPPUS SR. & ICY M. BIPPUS (LIFE ESTATE); JOSEPH F. BIPPUS JR., MARY FEKETE & BETTY ANN SWITH (REMAINDERNEN)	3-L8000100040000	1.00
U	JOSEPH F. BIPPUS, SR., ET AL	3-18000100050000	96.05
V	DANIEL MCKEE	3-L8002400080000	9.26
W	TYLER J. GRIFFITH	3-L8002400090000	2.09
X	JAY T, MAUCK & MELISSA J. MAUCK	3-L8002500000000	
Ŷ	JAY T. MAUCK & MELISSA J. MAUCK	3-18002600000000	2.00
Z	MICHELLE LYNN BONHAM & AARON BONHAM		2.00
AA	COREY M. SOBOTA	3-18002400010000	6.00
BB	JAMES E. CARRINGTON & SHANDRA D. CARRINGTON	3-L8002400050000	4.00
CC	STEVE VARGO & SHARON K. VARGO	3-18002900000000	
	WILLIAM F. STRAUB & N. F. STRAUB		24.52
DD		3-L1100010003000	12.02
EE	JOSEPH A. DOUGLAS & DIANNA C. DOUGLAS		
FF	PAUL J. ROBRECHT	3-L7004700000000	
GG	EILEEN B. GILMORE	3-L70046000000000	6.43
HH	TUNNEL RIDGE LLC	3-L70045000000000	
11	JAMES A. PARSONS & CAROL L. PARSONS	3-L7001100000000	
JJ	JAMES P. MILLER	3-L7000900020000	7.59
KK	JAMES P. MILLER	3-L7000900010000	0.34
LL	JAMES PURPURA TRUST	3-L70010000000000	3.04
MM	RENEE LYNN MOSA	3-L70009000000000	0.94
NN	WAYNE L WILHELM & M. B. WILHELM	3-L7000400000000	
00	LEE C. PAULL, III & JUNE W. PAULL	3-L40109000000000	204.00
PP	JOHN C. MYERS & A.F. MYERS	3-L40107000000000	3.68
QQ	HOLLAND PARK LIMITED LIABILITY	3-L40105000000000	141.82
RR	WINDSOR POWER HOUSE COAL COMPANY	3-L4010500070000	3.81
SS	B. G. RIDLER & J. M. TALLMON	3-L40113000000000	1.03
TT	DONALD E. GILBERT JR.	3-14011200000000	0.71
UU	B. G. RIDLER & J. M. TALLMON	3-L40106000000000	1.06
W	DIXIE M. LAUDERMILT & L. LAUDERMILT	3-L4010600010000	0.19
WW	STEVEN M. MCGLUMPHY	3-L4011000030000	189.B
XX	ROBERT E. DUVALL & E. C. DUVALL	3-L4011100010000	0.34
YY	MARK P. KAUFMAN & ANNELIESE KAUFMAN	3-L5000200000000	
ZZ	TODO E. PORTER	3-L4012500000000	0.53

COMPANY: SWN Production Company, LLC	SWN A V Production Company To
REVISIONS:	DATE: 11-16-2015
	DRAWN BY: K. POTH SCALE: DRAWING NO: 050-5635 WELL LOCATION PLAT

THRASHER

THE THRASHER GROUP, INC. 600 WHITE DAKS BLVD. BRIDGEPORT, WV 26330 PHONE 304-624-4108

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
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G	DAVID ALAN BELLANCO & DEBRA KAY BELLANCO	3-15002000110000	2.87
Н	JOSEPH F. BIPPUS, SR., ET AL	3-L5002000010000	
1	TUNNEL RIDGE LLC	3-L4012000030000	6.12
J	JOSEPH F. BIPPUS, SR., ET AL	3-L8000100050000	
K	HERBERT P. MINCH, JR. & ASHLEA R. MINCH	3-L4012000020000	
L	CARL HARTLIEB & ELSIE HARTLIEB	3-L4012000010000	
М	CINDY L. LINTON & B. A. FARMER (LIFE ESTATE)	3-L70050000000000	1.00
N	RONALD D. FEKETE & MARY LEE FEKETE	3-L7000500000000	
0	WENDY J. DAVIS	3-L7000600020000	2.49
P	WARREN E. MCLAUGHLIN, JR.	3-L7000700000000	2.73
0	RUSSEL E. MYERS & BETTY JANE MYERS	3-L700070000000	
R	RUSSEL E. WYERS & BETTY JANE MYERS	3-L7004900000000	0.59
S	JOSEPH F. BIPPUS SR. & ICY M. BIPPUS (LIFE ESTATE):	3-L8000100030000	1.45
3	JOSEPH F. BIPPUS JR., MARY FEKETE & BETTY ANN SMITH (REMAINDERMEN)	318000100030000	1.45
	JOSEPH F. BIPPUS SR. & ICY M. BIPPUS (LIFE ESTATE);	3-L8000100040000	1.00
T	JOSEPH F. BIPPUS JR., MARY FEKETE & BETTY ANN SMITH (REMAINDERMEN)		
U	JOSEPH F. BIPPUS, SR., ET AL	3-L8000100050000	96.05
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X	JAY T. MAUCK & MELISSA J. MAUCK	3-L8002500000000	2.06
Y	JAY T. MAUCK & MELISSA J. MAUCK	3-L8002600000000	2.00
Z	MICHELLE LYNN BONHAM & AARON BONHAM	3-L8002400100000	2.00
AA	COREY M. SOBOTA	3-L8002400010000	6.00
BB	JAMES E. CARRINGTON & SHANDRA D. CARRINGTON	3-L8002400050000	4.00
CC	STEVE VARGO & SHARON K. VARGO	3-L8002900000000	52.14
DD	WILLIAM F. STRAUB & N. F. STRAUB	3-L1100010003000	
EE	JOSEPH A. DOUGLAS & DIANNA C. DOUGLAS	3-L7004800010000	12.02
FF	PAUL J. ROBRECHT	3-L7004700000000	
GG	EILEEN B. GILMORE	3-L7004600000000	
нн	TUNNEL RIDGE LLC	3-L7004500000000	
11	JAMES A. PARSONS & CAROL L. PARSONS	3-L70011000000000	
JJ	JAMES P. MILLER	3-L7000900020000	
KK	JAMES P. MILLER	3-L7000900010000	
LL	JAMES PURPURA TRUST	3-L70010000000000	
ММ	RENEE LYNN MOSA	3-L7000900000000	
NN	WAYNE L. WILHELM & M. B. WILHELM	3-L7000400000000	
00	LEE C. PAULL, III & JUNE W. PAULL	3-L4010900000000	
PP	JOHN C. MYERS & A.F. MYERS	3-L4010700000000	
QQ	HOLLAND PARK LIMITED LIABILITY	3-L40105000000000	
RR	WINDSOR POWER HOUSE COAL COMPANY	3-L4010500070000	
SS	B. G. RIDLER & J. M. TALLMON	3-L4011300000000	
TT	DONALD E. GILBERT JR.	3-L4011200000000	
UU	B. G. RIDLER & J. M. TALLMON	3-L4010600000000	
W	DIXIE M. LAUDERMILT & L. LAUDERMILT	3-L401060000000	
WW	STEVEN M. MCGLUMPHY	3-L4011000030000	
XX	ROBERT E. DUVALL & E. C. DUVALL	3-L4011100030000	
ŶŶ	MARK P. KAUFMAN & ANNELIESE KAUFMAN	3-L5000200000000	
ZZ	TODD E. PORTER	3-L4012500000000	
AAA	WILLIAM S. PATTERSON, JR.	3-L4011500000000	
~~~	MILLIAM S. PATTERSON, JR.	19-140112000000000	3.00

47069 Received NOV 23 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

COMPANY: SWN Production Company, LLC	SW 0#1/2/2/20
REVISIONS:	DATE: 11-05-2015
	DRAWN BY: K, POTH
	DRAWING NO: 050-5635 WELL LOCATION PLAT

### Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

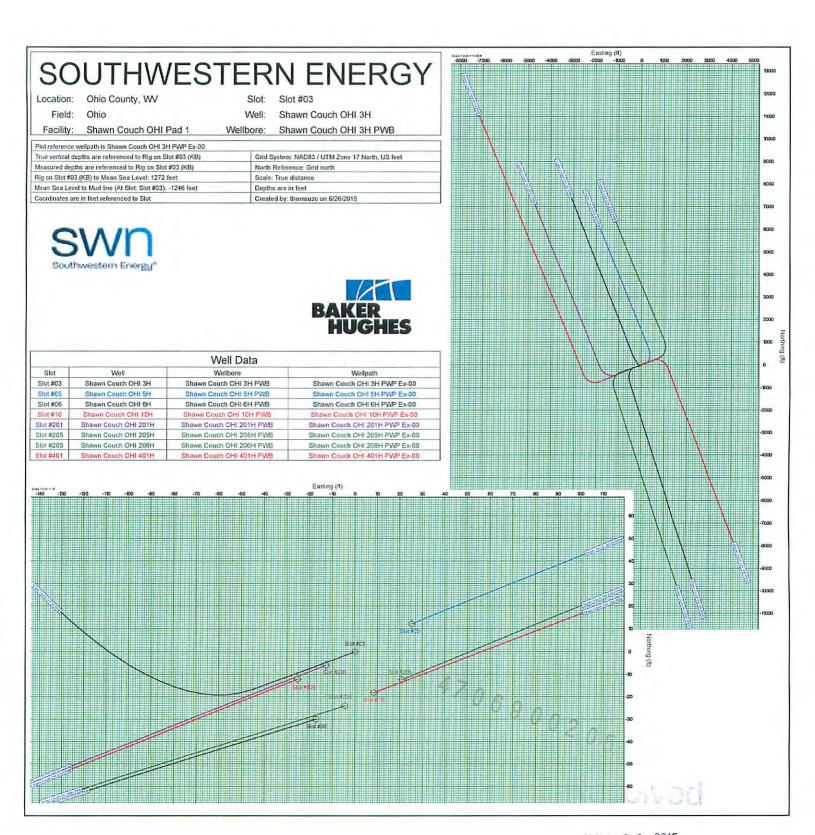
47 - 051 Well name: Shawn Couch OHI 6H
Bethany, Quad
Liberty, District
Ohio County, West Virginia

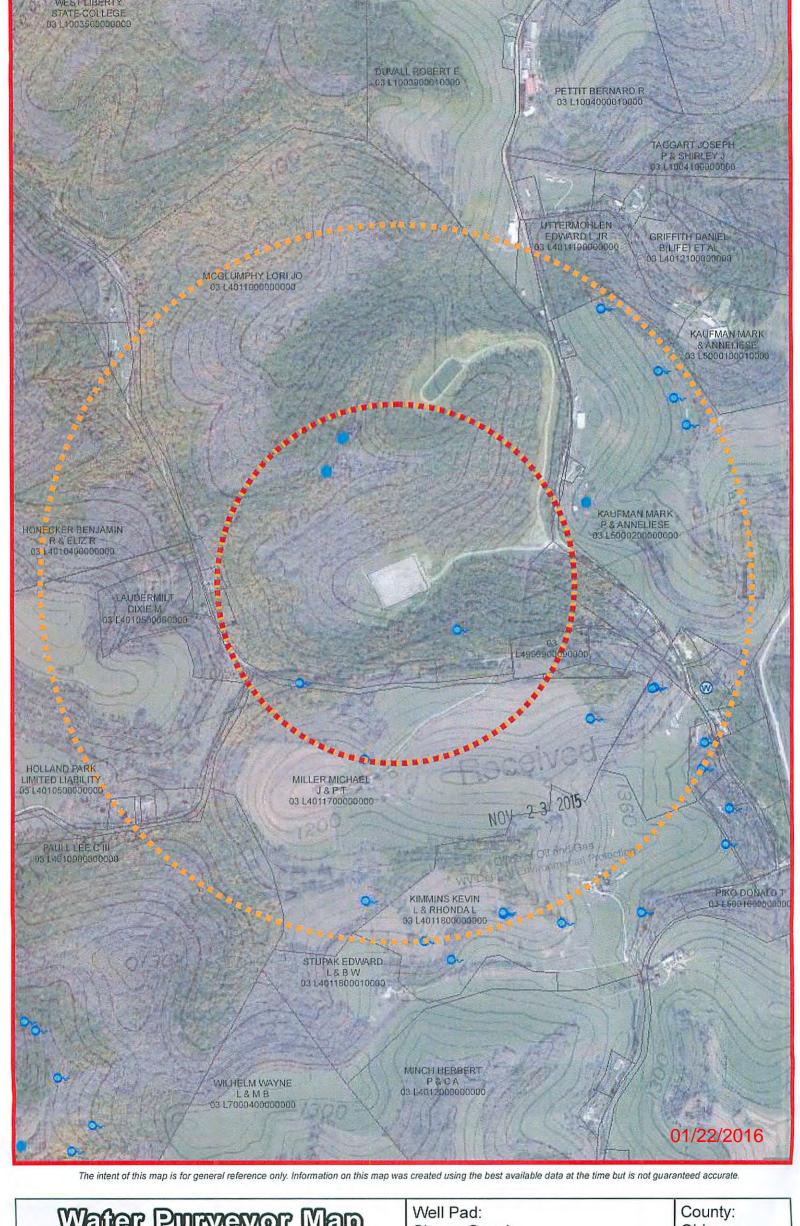
Submitted by:  Danielle Southall	11/5/2015 
Title Regulatory Supervisor	_ SWN Production Co., LLC
Approved by:  Title: Oil + Gen Inyector	Date: 11.6.15
Approved by:	Date:
Title:	=

Received

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Office of Oil and Gas WV Dept. of Environmental Protection





# Water Purveyor Map

Shawn Couch

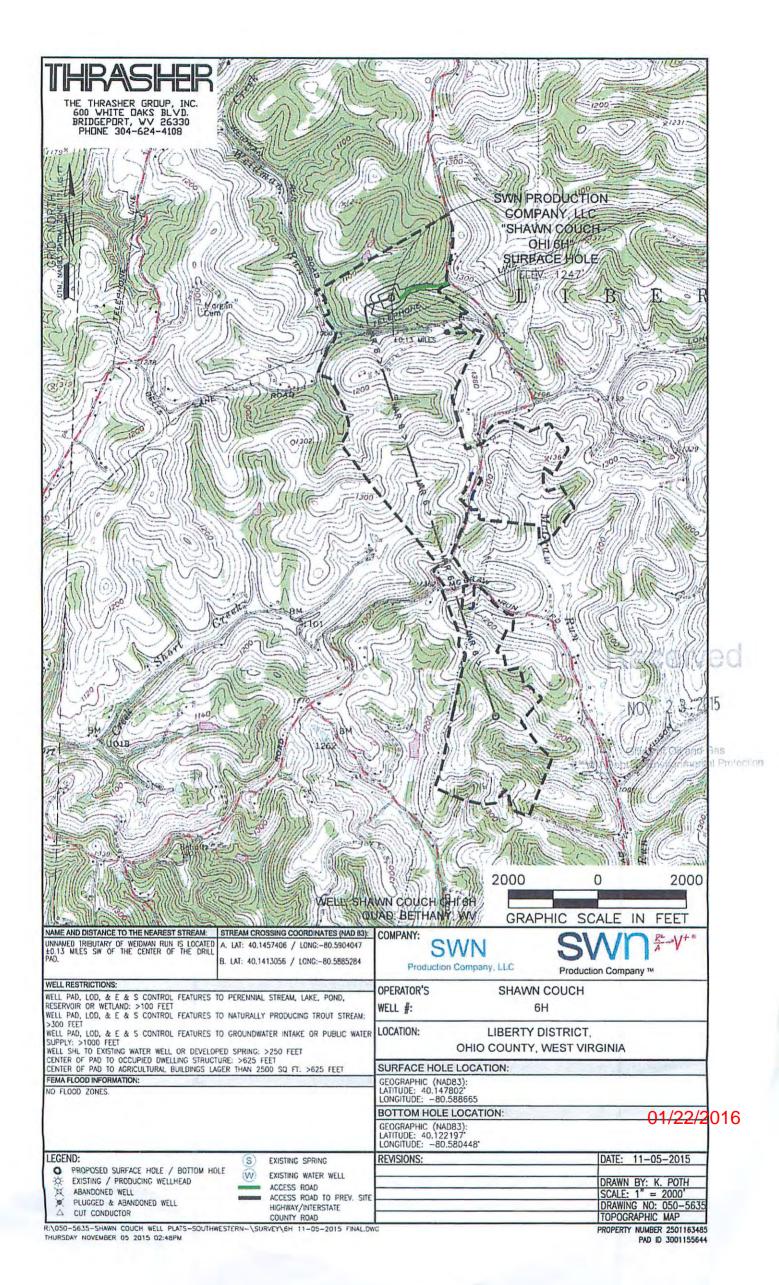
Ohio

Map by: youngst Date: 11/5/2015 Nad 83 UTM Z one 17 swn



Radius - 1500 ft Radius - 3000 ft

1 inch = 812 feet



### 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 I 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 A"

4706900205

### 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 L.L.C

By:

Its:

John D. Startz, Senior Staff Landman

Office of Oil and Gas MA Disbl. of Euritahachtal Biotection EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator
Shawn Couch OHI 6H
Ohio County, West Virginia

#	TMP	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1)	3-L4-110	1-324742-000	George W. Couch, widower	Fortuna Energy Inc.	12.50%	775/537
				Range Resources - Appalachia, LLC		786/422
				Chesapeake Appalachia, L.L.C.		808/493
				SWN Production Company, LLC		883/539
2)	3-L4-117	1-329416-000	Michael J. Miller and Penelope T. Miller, husband and wife	Chesapeake Appalachia, L.L.C.	18.00%	814/537
				SWN Production Company, LLC		883/587
3)	3-L4-118	1-324720-000	Kevin L. Kimmins and Rhonda L. Kimmins, his wife	Great Lakes Energy Partners, LLC	12.50%	776/264
				Chesapeake Appalachia, L.L.C.		808/549
				SWN Production Company, LLC		883/527
4)	3-L4-118.1	1-324070-001	Edward Louis Stupak and Brenda W. Stupak, his wife	Great Lakes Energy Partners, LLC	12.50%	778/11
				Chesapeake Appalachia, L.L.C.		808/521
				SWN Production Company, LLC		883/515
		47-001274-001	James W. Loew and Helen Louise Loew, husband and wife	Chesapeake Appalachia, L.L.C.	15.00%	831/374
				SWN Production Company, LLC		885/692
5)	3-L4-120	1-324724-000	Herbert P. Minch and Carol A. Minch, his wife	Great Lakes Energy Partners, LLC	12.50%	777/225
				Chesapeake Appalachia, L.L.C.		808/563
				SWN Production Company, LLC	5 -7	883/527
6)	3-L7-5.1	1-325727-000	Richard J. Schnelle, a married man dealing in his	Chesapeake Appalachia, L.L.C.	18:00%	815/11
			sole and separate property, and Calvin W. Schnelle, a single man			•
				SWN Production Company, LLC		883/563
7)	3-L7-8	1-325729-000	Richard J. Schnelle, a married man dealing in his sole and separate property, and Calvin W. Schnelle, a single man	Chesapeake Appalachia, LLC.	18.00%	815/15
			<del>-</del>	SWN Production Company, LLC		883/563
8)	3-L7-9.3	1-297708-000	James M. and Lacey A. Miller, husband and wife	Chesapeake Appalachia, L.L.C.	12.50%	801/775
				SWN Production Company, LLC		885/272
9)	3-L7-6.3	1-385504-000	Betty Jane Myers, a widow	NPAR, LLC	18.00%	816/655
				Chevron U.S.A. Inc.		827/284
				Chesapeake Appalachia, L.L.C.		867/713
				SWN Production Company, LLC		883/742
10)	3-L8-24	47-0000995-000	Corey M. Sobota, a single man	Chesapeake Appalachia, L.L.C.	18.00%	877/233
•			,	SWN Production Company, LLC	20,0070	895/512
11)	3-L7-48	1-385509-000	John L. Smith II and Joan Marie Smith a/k/a Joan M. Smith, his wife		18.00%	815/484
			•	Chevron U.S.A. Inc.		827/299
				Chesapeake Appalachla, L.L.C.		867/713
				SWN Production Company, LLC		883/742

00205





November 5, 2015

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

RE: SWN's proposed Shawn Couch OHI 6H in Ohio County, West Virginia, Drilling under Harvey's Rd., Greggsville Clinton and Potomac Rd., McGraw's Run Rd., and Weidman Run Rd.

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 Harvey's Rd., Greggsville Clinton and Potomac Rd., McGraw's Run Rd., and Weidman Run Rd. 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 and should you have any questions please feel free to contact the undersigned at (832) 796-6374 or by email at john_startz@swn.com.

Sincerely,

John D. Startz, CPL Senior Staff Landman

SWN Production Company, LLC

470690020-

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+⁸

10000 Energy Drive Spring, TX 77389-4954

Received

NOV 2 3 2015

Office of Oil and Gas WV Dept. of Environmental Protection

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

Date of Notic	ce Certification:	1	API	No. 47	- 69	-	
	/ /		Oper	ator's	Well N	o. Shaw	n Couch OHI 6H
			Well	Pad N	lame: _	Shawn C	Couch OHI Pad
Notice has l							
		ode §	22-6A, the Operator has provided	the req	uired pa	irties w	ith the Notice Forms listed
	tract of land as follows:		m v				
State:	WV		UTM NAD 83 Easti		535035.6		
County:	69-Ohio	_	Nortl	ning:	4444243		LAY
District:	3-Liberty .		Public Road Access:		Weidman	0.1301013	oad
Quadrangle: Watershed:	247-Bethany Weidmans Run		Generally used farm na	ime:	Shawn C	oucn	
watersned:	Weldmans Run						
t has providenformation re of giving the requirements Virginia Code	ed the owners of the surface de equired by subsections (b) and (c surface owner notice of entry t of subsection (b), section sixted	scrib s), se o su en o all te	nall contain the following informatived in subdivisions (1), (2) and (4) ction sixteen of this article; (ii) that rvey pursuant to subsection (a), se this article were waived in writing ander proof of and certify to the sect.	), subs the rec ction t ng by t	ection ( quirement en of the the surf	b), sec nt was is artic ace ow	tion ten of this article, the deemed satisfied as a resul- cle six-a; or (iii) the notice ther; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the rator has properly served the requect that APPLY		erator has attached proof to this No I parties with the following:	otice Co	ertificati	on	OOG OFFICE USE ONLY .
☐ 1. NO	TICE OF SEISMIC ACTIVITY	or	■ NOTICE NOT REQUIRED B SEISMIC ACTIVITY WAS CON			> -	☐ RECEIVED/ NOT REQUIRED
☐ 2. NO	ΓΙCE OF ENTRY FOR PLAT SU	JRV	EY or 🔳 NO PLAT SURVEY W	AS CC	NDUC	TED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL	or	☐ NOTICE NOT REQUIRED ENOTICE OF ENTRY FOR PLAT WAS CONDUCTED or				RECEIVED/ NOT REQUIRED
			☐ WRITTEN WAIVER BY SU (PLEASE ATTACH)	JRFAC	CE OWI	NER	
■ 4. NO	ΓΙCE OF PLANNED OPERATIO	NC					☐ RECEIVED
■ 5. PUE	BLIC NOTICE						RECEIVED
■ 6. NO	ΓΙCE OF APPLICATION						☐ 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.

NOV 2 3 2015

Certification	of Notice is	hereby	given:
Certification	of Profice is	HEICHY	given.

THEREFORE,	Ĭ	have read a	and understand	the notice requirements within West Virginia Code § 22-
6A. I certify that				served the attached copies of the Notice Forms, identified
above, to the re	equired parties through personal	ervice, by i	registered mai	I or by any method of delivery that requires a receipt or
signature confir	mation. I certify under penalty of	law that I h	ave personally	examined and am familiar with the information submitted
in this Notice (	Certification and all attachments	, and that I	based on my	inquiry of those individuals immediately responsible for
				d complete. I am aware that there are significant penalties
for submitting fa	alse information, including the pos	sibility of fi	ine and impriso	onment.
Well Operator:	SWN Production Co., LLC		Address:	P.O. Box 1300
By:	Dee Southall			Jane Lew, WV 26378
Its:	Regulatory Supervisor		Facsimile:	
Telephone:	304-884-1614	Padran	Email:	Dee_Southall@swn.com
Service of the servic	OFFICIAL SEAL			11 h
7 69	Matery Public, State of West VIII	ginia		orn before me this 5th day of 4 NUM INA 2015
8 3/14	NOTARYBRATTANY R WOOD	Subs	cribed and swo	orn before me this day of
	3302 Old Elkins Road Buckhannon, WV 2620	1	OILLO MI	Al Made
1.1	My commission expires November 2	,2022	JULIU	Notary Public
6		-		X' Minima
Antibaca		My (	Commission E	xpires / L day
				U
-				

Oil and Gas Privacy Notice:

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

4706900205

Received NOV 2 3 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

API NO. 47- 69 OPERATOR WELL NO. Shawn Couch OHI 6H
Well Pad Name: Shawn Couch OHI Pad

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

Notice Time Requirement: notice shall be provided no late	r than the filing date of permit application.
Date of Notice: ////////////////////////////////////	11/19/1-
☑ PERMIT FOR ANY ☐ CERTIFICATE OF.	APPROVAL FOR THE
	OF AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6	A-10(b)
☐ PERSONAL ☑ REGISTERED ☐ ME	ETHOD OF DELIVERY THAT REQUIRES A
	CEIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a rece sediment control plan required by section seven of this article, a the surface of the tract on which the well is or is proposed to be oil and gas leasehold being developed by the proposed well wor described in the erosion and sediment control plan submitted pu- operator or lessee, in the event the tract of land on which the we more coal seams; (4) The owners of record of the surface tract of well work, if the surface tract is to be used for the placement, co- impoundment or pit as described in section nine of this article; (have a water well, spring or water supply source located within provide water for consumption by humans or domestic animals; proposed well work activity is to take place. (c)(1) If more than subsection (b) of this section hold interests in the lands, the app records of the sheriff required to be maintained pursuant to sect provision of this article to the contrary, notice to a lien holder is	or pit as required by this article shall deliver, by personal service or by sipt or signature confirmation, copies of the application, the erosion and and the well plat to each of the following persons: (1) The owners of record of located; (2) The owners of record of the surface tract or tracts overlying the ek, if the surface tract is to be used for roads or other land disturbance as ursuant to subsection (c), section seven of this article; (3) The coal owner, ell proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed onstruction, enlargement, alteration, repair, removal or abandonment of any (5) Any surface owner or water purveyor who is known to the applicant to one thousand five hundred feet of the center of the well pad which is used to and (6) The operator of any natural gas storage field within which the three tenants in common or other co-owners of interests described in licant may serve the documents required upon the person described in the ion eight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. so provide the Well Site Safety Plan ("WSSP") to the surface owner and any ting as provided in section 15 of this rule.
☑ Application Notice ☑ WSSP Notice ☑ E&S Plan No	tice  Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE
Name: Shawn W. Couch Trust C/O Joseph Moffo, Jr.	Name: Windsor Coal Company
Address: 5503 Wood Duck Road	Address: 100 Consol Energy Drive
Middleburg, FL 32068	Canonsburg, PA 26059
Name:	☐ COAL OPERATOR
Address:	Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address: 4706900205
그들은 아이들은 그들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이들은 아이	☑ SURFACE OWNER OF WATER WELL
Name:	AND/OR WATER PURVEYOR(s)
Address:	
Name:	Name: See Attachment #1 Address:
Name:Address:	
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	OPERATOR OF ANY NATURAL GAS STORAGE FIELD Name: Address:
Name:	Address:
Address:	
	*Please attach additional forms if necessary NOV 2 3 2015

Attachment # (

Shawn Couch OHI Pad - Water Purveyors w/in 1500'

Landowner

Shawn W. Couch Trust

Address

5503 Wood Duck Road Middleburg, FL 32068

4706900205

Roceived

NOV 2 3 2015

Office of Oil and Gas WV Dept. of Environmental Protection

01/22/2016

OPERATOR WELL NO. Shawn Couch OHI 6H

Well Pad Name: Shawn Couch OHI Pad

### Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

### This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

NOV 2 3 2015

### 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

API NO. 47-69 OPERATOR WELL NO. Shawn Couch OHI 6H

Well Pad Name: Shawn Couch OHI Pad

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 Wilten comments as to application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

Office of Oil and Gas

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.

API NO. 47-69

OPERATOR WELL NO. Shawn Couch OHI 6H Well Pad Name: Shawn Couch OHI Pad

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.

NOV 2 3 2015

Office of Oil and Gas WV Dept. et Environmental Protection

API NO. 47-69

OPERATOR WELL NO. Shawn Couch OHI 6H

Well Pad Name: Shawn Couch OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLG

Telephone: 304-884-1614

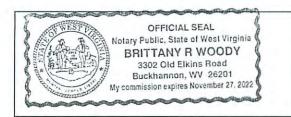
Email: Dee_Southall@swn.com

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 Notary Public

My Commission Expires

470690020

NOV 2 3 2015

Office of Oil and Gas V/V Dupt 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	Requirement: Notice shall be provided at le: e: 11/04/2015 Date Permi	ast TEN (10) days prior to filing a t Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		ESTED	
receipt reques drilling a hori of this subsection ma	T. Va. Code § 22-6A-16(b), at least ten days parted or hand delivery, give the surface owner zontal well: <i>Provided</i> , That notice given pution as of the date the notice was provided to be waived in writing by the surface owner, e, facsimile number and electronic mail address.	notice of its intent to enter upon the result to subsection (a), section to the surface owner: <i>Provided, how.</i> The notice, if required, shall include the surface of the surface owner.	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OWN  7. Couch Trust C/O Joseph Moffo, Jr.		
Address: 5503		Name:	
Middleburg, FL 32	¥	Address:	
Notice is her	roby given		Les Comments
Pursuant to W the surface ov State: County: District:	rest Virginia Code § 22-6A-16(b), notice is I rest virginia Code § 22-6A-16(b), notice is I rest virginia a horized West Virginia Ohio  Liberty	ontal well on the tract of land as for UTM NAD 83  Public Road Access:  Easting: Northing:	
Quadrangle:	Bethany	Generally used farm name:	Shawn Couch
Watershed:	Weidmans Run		
Pursuant to V facsimile nun related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this no ober and electronic mail address of the operizontal drilling may be obtained from the Se 57th Street, SE, Charleston, WV 25304 (304)	erator and the operator's authorized ecretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters,
	reby given by:  SWN Production Company, LLC	Authorized Representative:	Steve Perkins
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-884-1615	Telephone:	304-884-1615
Email:	steve_perkins@swn.com	Email:	steve_perkins@swn.com
Facsimile:		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 <a href="mailto:depprivacyofficer@wv.gov">depprivacyofficer@wv.gov</a>.

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

Address: 5503 Wood Duck Rd. Address: Middleburg, FL 32068  Notice is hereby given: Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersite operation on the surface owner's land for the purpose of drilling a horizontal well on State:  West Virginia  LITM NAD 83  Easti	used for the drilling of a horizontal well notice of copy of this code section; (2) The information whose land will be used in conjunction with the element containing an offer of compensation for ele compensable under article six-b of this chapter.
Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit return receipt requested or hand delivery, give the surface owner whose land will be use the planned operation. The notice required by this subsection shall include: (1) A required to be provided by subsection (b), section ten of this article to a surface owner drilling of a horizontal well; and (3) A proposed surface use and compensation agridamages to the surface affected by oil and gas operations to the extent the damages are (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):  Name: Shawn W. Couch Trust C/O Joseph Moffo, Jr.  Address: 5503 Wood Duck Rd.  Middleburg, FL 32068  Notice is hereby given:  Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersity operation on the surface owner's land for the purpose of drilling a horizontal well on State:  West Virginia  LITM NAD 83  Easti	used for the drilling of a horizontal well notice of copy of this code section; (2) The information whose land will be used in conjunction with the element containing an offer of compensation for ele compensable under article six-b of this chapter.
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	the tract of land as follows: ng: 535,035.664
District: Liberty Public Road Access:	Harvey Road
Quadrangle: Bethany Generally used farm na	ime: Shawn Couch
Watershed: Weidmans Run	
This Notice Shall Include: Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will horizontal well; and (3) A proposed surface use and compensation agreement contain surface affected by oil and gas operations to the extent the damages are compensable information related to horizontal drilling may be obtained from the Secretary, at the headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-gas/pages/default.aspx.	Il be used in conjunction with the drilling of a ing an offer of compensation for damages to the le under article six-b of this chapter. Additional e WV Department of Environmental Protection
Well Operator: SWN Production Company, LLC Address: PO Box 130	0, 179 Innovation Drive
Telephone: 304-884-1615 Jane Lew, V	
Email: steve_perkins@swn.com Facsimile:	., 2007
Stave_helville@swil.com 1 dostitille.	

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.

NOV 2 3 2015



### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

# Division of Highways 1900 Kanawha Boulevard East • Building Five • Room 110

Earl Ray Tomblin Charleston, West Virginia 25305-0430 • (304) 558-3505
Governor

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

November 18, 2015

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 Shawn Couch Pad, Ohio County Shawn Couch OHI 6H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0060 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 55 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.

470 Very Truly Yours,

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office Oil &Gas Coordinator

Dany K. Clayton

Cc: Brittany Woody Southwestern Energy

CH, OM, D-6

File

NOV 23 2015

Office of Off and Gas
WV Dept. of Environmental Protection.

01/22/2016

E.E.O./AFFIRMATIVE ACTION EMPLOYER

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
	ALPHA 1427	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	Olavora	Olay Otabiliana	Choline Chloride	000067-48-1
	ClayCare	Clay Stabilizer	Water	007732-18-5
BAKER HUGHES	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	OWNER	0-1	Petroleum Distillate Blend	N/A-014
	GW-3LDF	Gel	Polysaccharide Blend	N/A-021
		0 1 1 1 1 1 1	Diethylene Glycol	000111-46-6
	SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-1
	Manage 1		Boric Acid	010043-35-3
	XLW-32	Crosslinker	Methanol (Methyl Alcohol)	000067-56-1
	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
FRAC TECH SERVICES	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

NOV 2 3 2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Numbe
_			Ethanol	000064-17-
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-
ONESOURCE			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-
	Way to		Ammonium Persulfate	007727-54-
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
	WG3-03   EG	Ciay Stabilizer	Water	007732-18-
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-
WEATHERFORD			Potassium Carbonate	000584-08-
The same of the sa	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
CON 23 2015	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-
0016			Water	007732-18-
MON 53 5012		Crosslinker	Ethylene Glycol	000107-21-
Office of Oil and Gas	WXL-105L		Boric Acid	010043-35-
Office of Oil and Gas Office of Oil and Gas Oept. of Environmenial Pro			Ethanolamine	000141-43-
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218		Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker	Breaker	Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315		Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

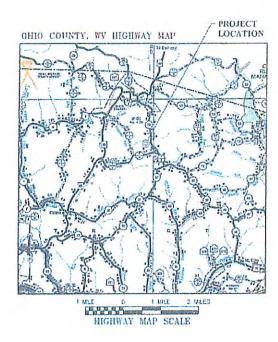
SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borata i rossilovar 1532 i		Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

Received

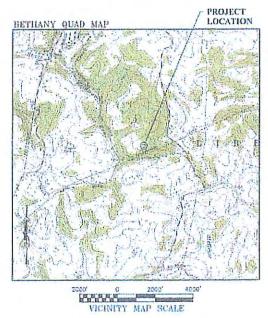
NOV 23 2015

Office of Oil and Gas

WV Dept. of Environmental Protection



# SOUTHW AS-BU SHAWN LIBERTY DIST



AS-BUILT ACCESS ROAD BEGINNING NABSI Latitude = N. 40.1487379 NABSI Longitude = W 80.5840069 UTM 83-17 Northing = 14581167-5010 ft. UTM 83-17 Easting = 1756663.1100 ft.

AS-BUILT CENTER OF WELL PAD NADR3 Lafflude = N 40.147847* NADR3 Longitude = W 80.583565* UTM 83-17 Northing = 14590844.5644 ft. UTM 83-17 Easting = 1755390.7053 ft.

PROJECT LOCATION



ONE CALL UTILITY SYSTEM CONTACT INFO



CONTRACTOR SHALL NOTHLY THE ONE-CALL SYSTEM OF THE INTERSED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (43) HOURS, EXCLUDING SATHEDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLOLAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

THE MICROHATION CONTAINED HERCH IN THE ROLL PRO DOCUMENTS IN RHOLE OF IT PART, FOR THE REASON IN 2012

# ESTERN ENERGY

ILT PLANS FOR THE **COUCH PAD** 

TRICT, OHIO COUNTY, WV **DVEMBER 2015** 



BOTES

NOTES

NOTES

PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY BOORD, BENCHECK & ASSOCIATES, INC (BIA) TO CHESAPEAKE APPALACHIA, ELC, IN BLLY 2011 HAVE BEEN INCORPORATED INTO THESE PLANS. THE BBA AS-BUILT SURVEY WAS PROVIDED TO THEASHER BY SOLTHWESTERN ENERGY IN SEPTEMBER 2015 AND INCLUDED CONTOURS, ROAD EDGES, WELL BEAD LOCATIONS, EROSION AND SEDIMENT CONTROLS, STC.

EXISTING BOAD EUGES, WELL PAD EDGE, GAS PRODUCTION EQUIPMENT, ABOVE ORGOND PIPING, STORM WATER FEATURES, ETC. WERE VERIFIED AND AS-BUILT BY THRASHER SEPTEMBER 2015.

THE COORDINATE SYSTEM USED FOR THIS PROJECT IS UTM WITH NADS3 DATUM, ZONE 17, UN FOOT; CENTRAL MERIDIAN SHW.



SOUTHWESTERN ENERGY 179 Chesapeake Drive Jane Lew, WV 26378 (304) 884-1610

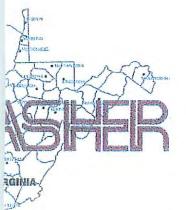
### SHEET INDEX

SHEET	DESCRIPTION
1	TITLE SHEET
2-3	EVACUATION ROUTE/PREVALING WIND
4	AS-BUILT OVERVIEW
5	AS-DUILT ACCESS ROAD PLIN & PROFILE
6	AS-BUILT WELL PAD PLAN
7	AS-BUILT WELL PAD PROFILE & SECTIONS
S	RECLAMATION PLAN
· ·	RECLAMATION GENERAL NATES
10)	RECLAMATION DETAILS

### SHAWN COUCH PAD "A" VELLS

EXISTING WELL 1H: API# 47-069-00072 EXISTING WELL 8H: API# 47-069-00105





REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
				-
				**************************************

THE THRASHER GROUP, INC. 600 WHITE OAKS BOULEVARD - BRIDGEPORT, W 26330 PHONE (304) 624-4108 • FAX (304) 624-7831

PERTY OF THE THEATHER GROUP, MC. PERMODUCTION OF THESE & GINGOL PROPERTY RETTER PERMISSION, IS STREET, FROM THE

FIELD BOOK No.:	
SURVEY BY:	
SURVEY DATE:	
APPROVED:	
CHECKED:	1
DRAMM	
SCALE:	

Southwestern Energy*

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ALM 83-14 E: 1128390 7083 E.

MAR3-IV A: 14880844 5644 E.

MAR3-IV TVI. A 60 5885658

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DISEASIFING MINDS

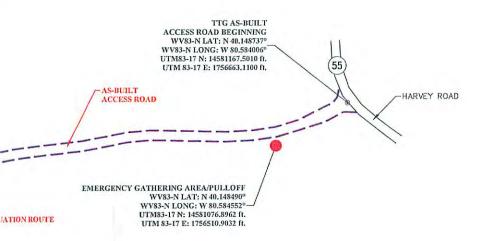
01/22/2016

PLOT DATE/TIME: 11/18/2015 2:17 PM

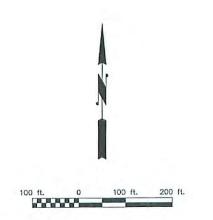
EVACUATION ROUTE PLAN LEGEND

TTG AS-BUILT ROAD EDGE
TTG AS-BUILT PAD EDGE
TTG AS-BUILT EDGE OF PAVEMENT

PREVAILING WINDS



PREVAILING WINDS



DATE:
DATE:

THE THRASHER GROUP, INC.

600 WHITE OAKS BOULEVARD, BRIDGEPORT, WY 26330
PHONE (304) 624–410B FAX (304) 624–7831

PHASE No.

CONTRACT No.

PROJECT No.

101-050-5635

SOUTHWESTERN ENERGY
AS-BUILT PLANS FOR THE
SHAWN COUCH PAD "A"
OHIO COUNTY, OH
EVACUATION ROUTE/PREVAILING WINDS

SHEET No.

# LOCATION OHIO COUNTY, MY HIGHWAY MAD



ONE CALL UTILITY SYSTEM CONTACT INFO



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### SOUTHWESTERN ENERGY

### AS-BUILT PLANS FOR THE SHAWN COUCH PAD "A"

LIBERTY DISTRICT, OHIO COUNTY, WV **NOVEMBER 2015** 

WVDEP OOG ACCEPTED AS-BUILT Way 12/11/2015

AS BETTE ACCESS ROAD BELISSING NADSOLARROGE - NADA487375 %Atta? Longtoner = W 50.584606* UTM 83-12 Northing = 14581467,5015 is UTM 83-12 Easting = 1256663,1100 ft.

AND RESIDENCE OF WELL PAR N SEX Latitude - N 40.127667 NADS Langitude - W 42.46645 UTM SA-17 Northing - MSSW44, SA-14 5. UTM SA-17 Facility - 1755,199,7453 h.



NOTES

Southwestern Energy'

SOUTHWESTERN UNERGY 179 Chesageake Orbit Jane Unit, WV 26271 15041304-1610

### SHEET INDEX

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