

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: 47-6900207, 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.

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Operator's Well No: SHAWN COUCH OHI 206H

Farm Name: COUCH, SHAWN W. TRUST

API Well Number: 47-6900207

Permit Type: Horizontal 6A Well

Date Issued: 01/21/2016

API Number:						_	
47	0	9	0	0	6	\bigcirc	7

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47-69	
OPERATOR WELL NO.	Shawn Couch OHI 206H

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 Operat	tor: SWN Pro	duction Co., LLC	494512924	69-Ohio	3-Liberty	247-Bethany
			Operator ID	County	District	Quadrangle
2) Operator's V	Well Number: _S	Shawn Couch OHI	206H Well Pa	d Name: Shav	vn Couch O	HI Pad
3) Farm Name	/Surface Owner	Shawn W. Couch	Trust Public Roa	ad Access:		
4) Elevation, c	urrent ground:	1247' El	evation, proposed	post-construct	ion: 1247'	
5) Well Type	(a) Gas x	Oil	Und	erground Stora	ge	
	Other					
		nallow x	Deep	-		
() F.,:-t! D		orizontal x		d.	Bec	2.1.
	l: Yes or No <u>Y</u>		' 1 TPL ' . I		Dec	11.6.15
		(s), Depth(s), Antic let Top TVD-6285, Tar				ated Pressure- 4160
8) Proposed To	otal Vertical De	oth: 6177'				
	t Total Vertical	10.61	6			
10) Proposed T	otal Measured I	Depth: 15,750'				
11) Proposed F	Horizontal Leg L	ength: 9032.39'				
12) Approxima	ite Fresh Water	Strata Depths:	300'			
13) Method to	Determine Fresl	n Water Depths: V	vireline logs			
14) Approxima	te Saltwater De	pths: 1150'	1 7			
15) Approxima	ite Coal Seam D	epths: 453'	41	06900	0	
16) Approxima	te Depth to Pos	sible Void (coal mi	ne, karst, other):	None that we	are aware c	of.
		on contain coal sear o an active mine?	ns Yes	No	×	
(a) If Yes, pro	ovide Mine Info	: Name:			Rei	seived
		Depth:			1 1	
		Seam:			- NO/	2 3 2015
		Owner:				4 Dag
					WV. Dept. of	ne of Oil and Gas Environmental Protection

API NO. 47- 69 -

OPERATOR WELL NO. Shawn Couch OHI 206H

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# 484	DG 400'	400'	375 sx/CTS
Coal	9 5/8"	New	J-55	40# 36世	28 als 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#	15,750'	15,750'	Lead 988sx tail 2102sx/100' inside intermediate
Tubing	2 3/8'	New	P-110	4.7#	Approx. 6177'	Approx. 6177'	
Liners					•		



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							

4706900207 **PACKERS**

NOV 2 3 2015
Office of Oil and Gas

API NO. 47-69		
OPERATOR WELL	NO.	Shawn Couch OHI 206H
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 a	area,	pits,	etc.,	(acres):	1	1	
					0		man and the second		1			_		

- 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 ***

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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Office of Oil and Gas
WV Dept. of Environmental Protecti

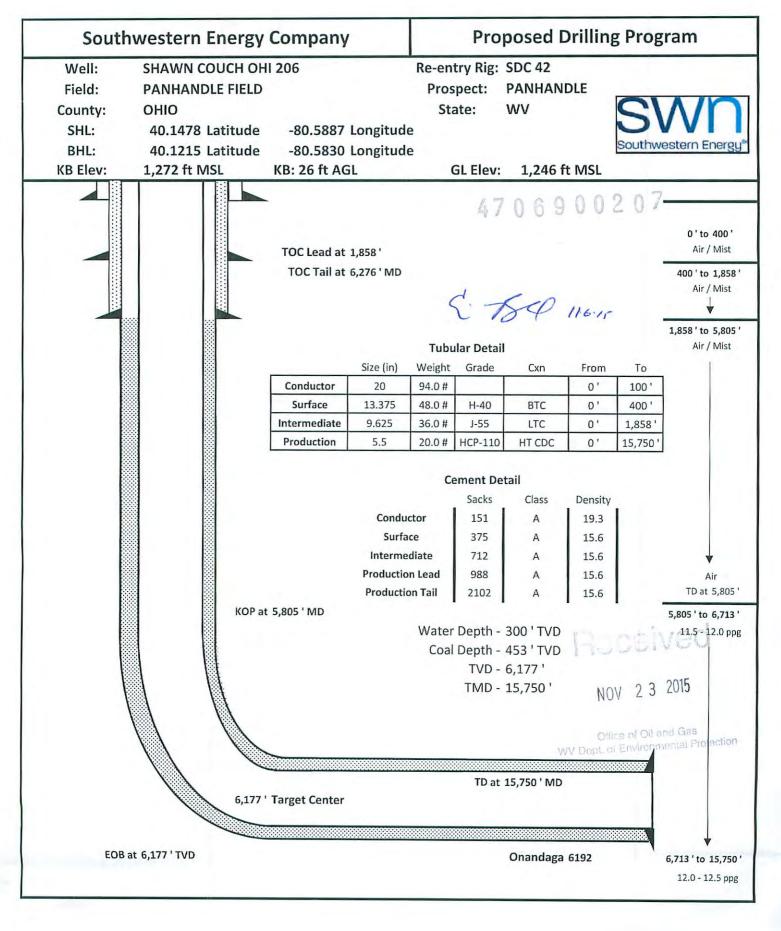
Schlumberger Cement Additives

	Dun dunt Nacco		Chemical Name	CAS Number
	Product Name	Product Use	Cnemical Name	CAS Nulliber
Surface	S001	accelerator	calcium chloride	10043-52-4
ntermediate	S001	accelerator	calcium chloride	10043-52-4
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
Off	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
pe	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
<u>=</u>			sodium polynaphthalene sulfonate	9008-63-3
n-Tē	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail			chrystalline silica	14808-60-7
ληρα	D201	retarder	metal oxide	propriatary
Prc	D153	anti-settling	chrystalline silica	14808-60-7

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01/22/2016

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Watershed (HUC 10) Weidman	ns Run	Quadrangle 247-Bethany
Elevation 1247'	County_69-Ohio	District 3-Liberty
Will a pit be used? Yes	No	e the proposed well work? Yes No
If so, please describe ar	melpated pit waste.	system in place at this time- cuttings will be taken to a permitted landfill.
Will a synthetic liner be	e used in the pit? Yes N	No If so, what ml.?
Proposed Disposal Met	hod For Treated Pit Wastes:	No V If so, what ml.?
Land	Application	200072520/200412175/200640206/200640247
		tumber 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317 well, API# will be included with the WR-34/DDMR &/or permit addendum.
Off S	ite Disposal (Supply form WW-9	for disposal location)
Other	(Explain flow back fluids will be pu	ut in steel tanks and reused or taken to a permitted disposal facility.
Will closed loop system be used	? If so, describe: Yes	- vod
Drilling medium anticipated for	this well (vertical and horizontal)?	? Air, freshwater, oil based, etc. Air drill to KOP, Fluid crill with SOBM from KOP to TO
-If oil based, what type	? Synthetic, petroleum, etc. Syntheti	ic Oil Base NOV 2 3 2015
Additives to be used in drilling n	medium? see attached sheets	NOV 2 3 2
Drill cuttings disposal method?	Leave in pit, landfill, removed off	site, etc. landfill Ovice of Oil and Gas
-If left in pit and plan to	solidify what medium will be use	ed? (cement, lime, sawdust) WV Dept. of Environmental Protection
-Landfill or offsite name	e/permit number?meadow SWF-1032, SS Grading	3 SWF- 4902, Northwestern SWF- 1025, Short Creek 1034WV0109517/CID28726, Carbon Limestone 28726/CID28726
I certify that I understar on August 1, 2005, by the Office provisions of the permit are enfo law or regulation can lead to enfo I certify under penalty application form and all attack obtaining the information, I bel	nd and agree to the terms and conce of Oil and Gas of the West Virgin orceable by law. Violations of an orcement action. of law that I have personally expenses thereto and that, based o	y VVIGE 3839U/CID3839U, PINE GROVE 13688 ditions of the GENERAL WATER POLLUTION PERMIT issued nia Department of Environmental Protection. I understand that the my term or condition of the general permit and/or other applicable camined and am familiar with the information submitted on this on my inquiry of those individuals immediately responsible for a cacurate, and complete. I am aware that there are significant of fine or imprisonment.
Company Official (Typed Name	Dee Southall	
Company Official Title Regulat		
	^	
Subscribed and sworn before me	this_5th_day of_	Notary Public Notary Notary Public Notary No

Proposed Dayagetation Treatr		Prevegetation pl	
as determined by pH test	ment: Acres Disturbed	1 11	Η
Lime10-20	Tons/acre or to co	rrect to pH	
Fertilizer type	7.000		
Fertilizer amount 60	30	lbs/acre	
Mulch_ Hay/Stra	aw 2.5	Tons/acre	
		2/06	900207
		Seed Mixtures	00207
Ten	mporary	Perma	inent
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20
Plan Approved by:	WO	146.15	
	100		
Comments:		Y-	NOV 2 3 2015
Comments:		y	Hoseiver
	spector		NOV 2 3 2015
Comments:Oil and Gas Institle: Oil Reviewed?		Date: //-6-18	NOV 2 3 2015

Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 051 Well name: Shawn Couch OHI 206H
Bethany, Quad
Liberty, District
Ohio County, West Virginia

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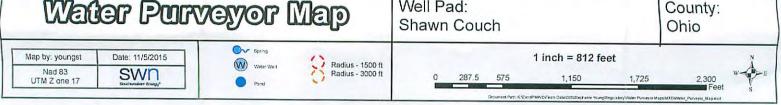
Submitted by: Danielle Southall	11/5/2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by: Title: 0:1 + Ges Imperts/	Date:
Approved by:	Date:
Title: SWN Production Co., LLC – Confidential	

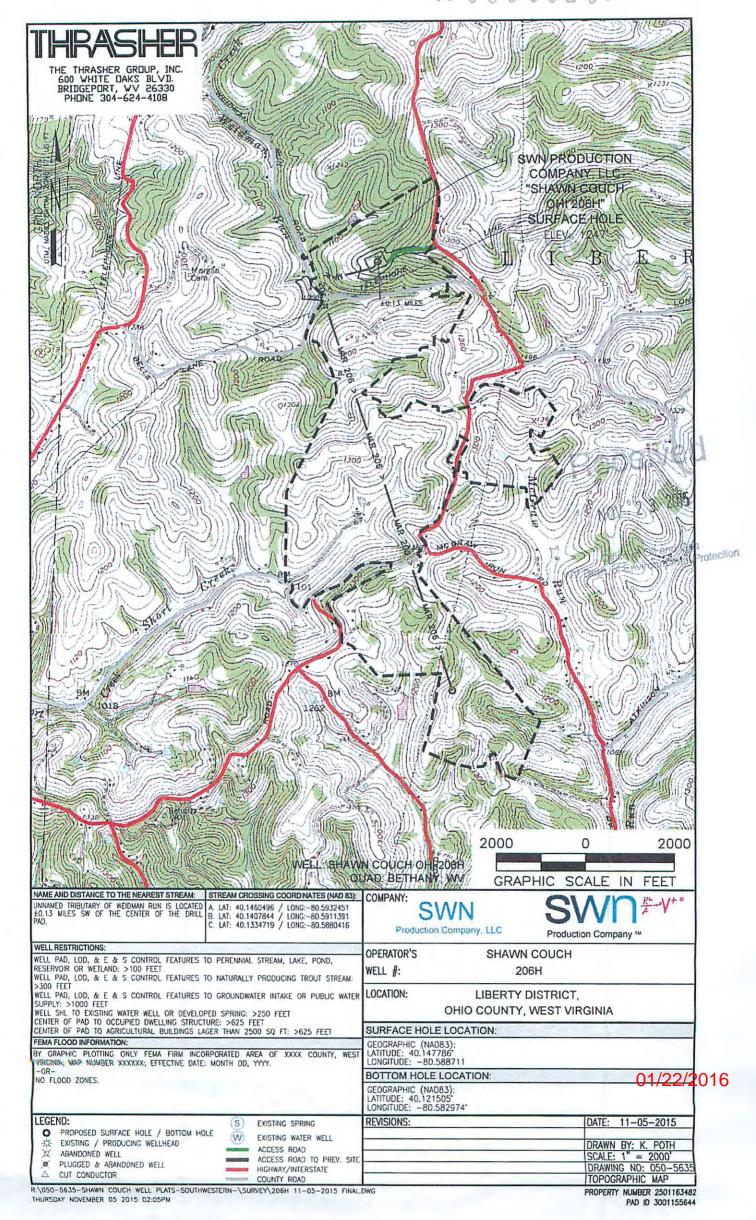
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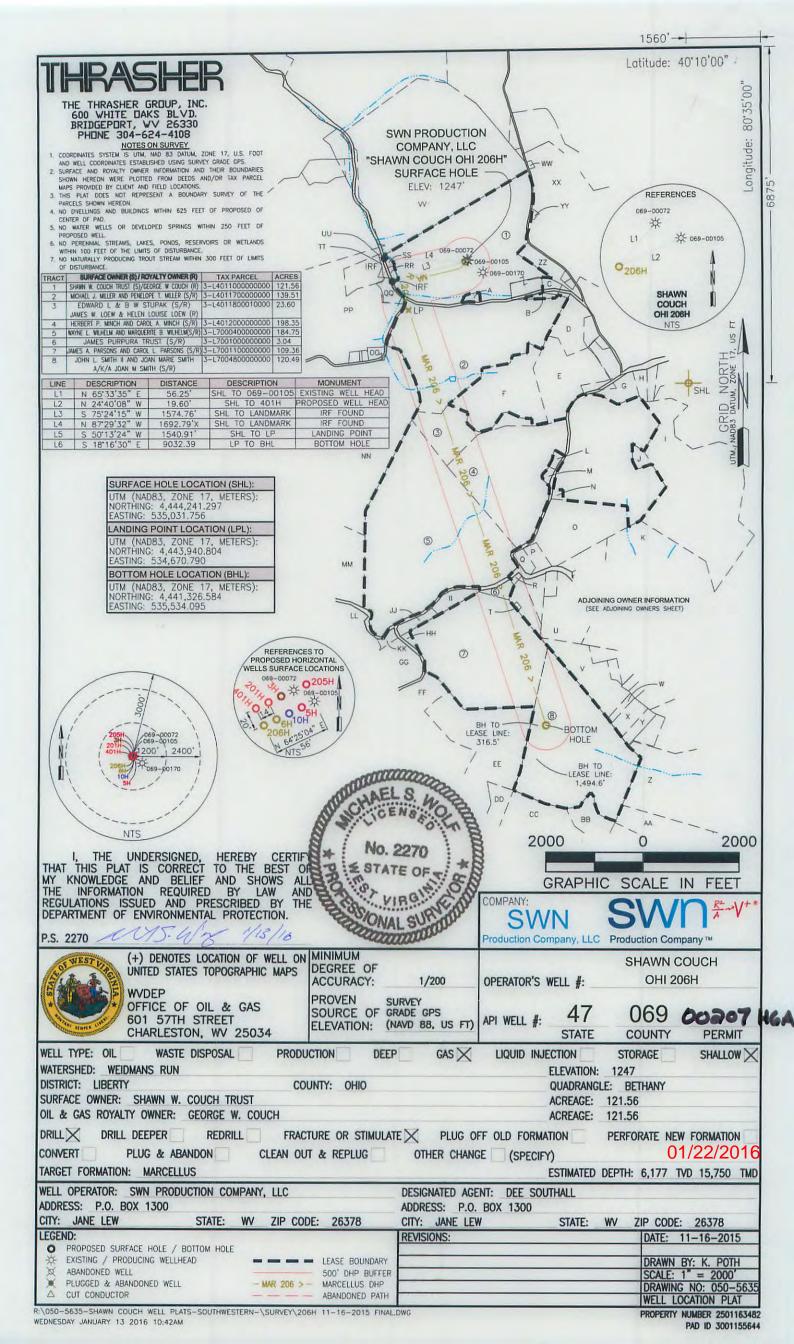
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Office of Oil and Gas
WV Detal of Environmental Protection









THRASHER

ADJOINING OWNER INSET

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

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	SHAWN W. COUCH TRUST	3-14011000010000	1.16
B	PAUL TYRNA & RHONDA TYRNA	3-L40114000000000	1.24
C	MARK E. NORMAN	3-L4011000020000	2.44
0	JAMES W. LOWE & HELEN L. LOWE	3-L4011800020000	15.00
E	KEVIN L. KIMMINS & RHONDA L. KIMMINS	3-L4011800030000	29.00
F	KEVIN L. KIMMINS & RHONDA L. KIMMINS	3-L40118000000000	33.39
G	DONALD T, PIKO	3-L50016000000000	10.91
Н	DAVID ALAN BELLANCO & DEBRA KAY BELLANCO	3-L5002000110000	2.87
1	JOSEPH F. BIPPUS, SR., ET AL	3-15002000010000	105.22
3	TUNNEL RIDGE LLC	3-L4012000030000	6.12
K	JOSEPH F. BIPPUS, SR., ET AL	3-L8000100050000	
T	HERBERT P. MINCH, JR. & ASHLEA R. MINCH	3-L4012000020000	
	CARL HARTLIEB & ELSIE HARTLIEB	3-L4012000010000	-
M	CINDY L. LINTON & B. A. FARMER (LIFE ESTATE)	3-L7005000000000	
N		3-L7000500000000	
0	RONALD D. FEKETE & MARY LEE FEKETE RICHARD J. SCHNELLE & CALVIN W. SCHNELLE	3-L7000500010000	
		3-L7000800000000	
Q	RICHARD J. SCHNELLE & CALVIN W. SCHNELLE	3-L70008000000000	
R	RENEE LYNN MOSA		
S	JAMES P. MILLER	3-L7000900020000	
1	JAMES P. MILLER	3-L7000900010000	
U	MILO H. CRISWELL	3-1,7000600030000	
٧	COREY M. SOBOTA	3-L8002400000000	
W	MICHELLE LYNN BONHAM & AARON BONHAM	3-L8002400100000	
X	COREY M. SOBOTA	3-L8002400010000	
Y	JAMES E. CARRINGTON & SHANDRA D. CARRINGTON	3-L8002400050000	
Z	STEVE VARGO & SHARON K, VARGO	3-L8002900000000	
AA	WILLIAM F. STRAUB & N. F. STRAUB	3-L1100010003000	
BB	JOSEPH A DOUGLAS & DIANNA C. DOUGLAS	3-L7004800010000	
CC	PAUL J. ROBRECHT	3-L7004700000000	
DD	EILEEN B. GILMORE	3-L7004600000000	
EE	TUNNEL RIDGE LLC	3-L7004500000000	
FF	L P. HUDNALL & M. L. HUDNALL	3-L7004100000000	
CC	ROBERT WALTER LASCH & DONNA LASCH (LIFE ESTATE); LINDA JEAN STONE	3-L7001600010000	
HH	ERNEST L. HERRON & H. D. HERRON	3-L7001400010000	1.85
11	JAMES PURPURA FAMILY TRUST	3-L7001200000000	
JJ	ELLSWORTH R. RINE & L. K. HINE	3-L7001300000000	4.14
KK	BEVERLY J. HOFFER	3-L70015000000000	2.10
LL	ROBERT WALTER LASCH & DONNA LASCH (LIFE ESTATE); LINDA JEAN STONE	3-L70016000000000	80.40
MM	ROBERT J. GRIMES	3-L70003000000000	28.2
NN	LEE C. PAULL, III & JUNE W. PAULL	3-L40109000000000	204.0
00	JOHN C. MYERS & A.F. MYERS	3-L40107000000000	3.68
pp	HOLLAND PARK LIMITED LIABILITY	3-L40105000000000	141.8
QQ	WINDSOR POWER HOUSE COAL COMPANY	3-L4010500070000	3.81
RR	B. G. RIDLER & J. M. TALLMON	3-L4011300000000	1.03
SS	DONALD E. GILBERT JR.	3-L4011200000000	
TT	B. G. RIDLER & J. M. TALLMON	3-L4010600000000	
UU	DIXIE M. LAUDERMILT & L. LAUDERMILT	3-L4010600010000	
W	STEVEN M. MCGLUMPHY	3-L4011000030000	
WW	ROBERT E. DUVALL & E. C. DUVALL	3-L40111000000000	
XX	MARK P. KAUFMAN & ANNELIESE KAUFMAN	3-15000200000000	
YY	TODD E. PORTER	3-L4012500000000	
ZZ	WILLIAM S. PATTERSON, JR.		
4.6.	MILLIAM S. PATTERSON, JR.	3-L4011500000000	3.00

COMPANY: SWN Production Company, LLC	O1/22/201 SWN A* V+* Production Company ™
REVISIONS:	DATE: 11-16-2015
	INSET FROM SHEET 1
	DRAWN BY: K. POTH
	SCALE:
	DRAWING NO: 050-5635
	WELL LOCATION PLAT

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

Book/Page

"SEE EXHIBIT A"

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

Page 1 of 1

Office of Oil and Gas WV Dept. of Environmental Protection 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 206H

Ohio County, West Virginia

Ohio County, West Virginia					1. x. 20		
#	TMP	LEASE #	LESSOR	LESSEE		ROYALTY	BK/PG
1)	3-L4-110	1-324742-000	George W. Couch, widower	Fortuna Energy Inc. Range Resources - Appalachia, LLC Chesapeake Appalachia, L.L.C.		12.50%	775/537 786/422 808/493
				SWN Production Company, LLC			883 /5 39
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 /58 7
3)	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
			wile	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC			808/521
		47-001274-001	James W. Loew and Helen Louise Loew, husband and wife	Chesapeake Appalachia, L.L.C.	N	15.00%	883/515 831/374
				SWN Production Company, LLC			885/692
4)	3-L4-120	1-324724-000	Herbert P. Minch and Carol A. Minch, his wife	Great Lakes Energy Partners, LLC	0	12.50%	777/225
				Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	0		808/563 883/527
5)	3-L7-4	1-384422-000	Wayne L. Wilhelm and Marguerite B. Wilhelm,	NPAR, LLC	©	18.00%	822/605
			husband and wife	Chevron U.S.A. Inc.	\bigcirc		007/200
				Chesapeake Appalachia, L.L.C.			827/299 858/359
				SWN Production Company, LLC	~ ~		883/611
6)	3-L7-10	1-272771-000	James M. Purpura, a single man	Chesapeake Appalachia, L.L.C.		12.50%	795/627
				SWN Production Company, LLC			885/272
7)	3-L7-11	1-384444-000	James A. Parsons and Carol L. Parsons, individually and as husband and wife	NPAR, LLC		18.00%	815/466
				Chevron U.S.A. Inc.			827/269
				Chesapeake Appalachia, L.L.C.			858/359
				SWN Production Company, LLC			883/623
8)	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 Appalachia, L.L.C.			867/713
				SWN Production Company, LLC			883/742





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 10H & 206H in Ohio County, West Virginia, Drilling under Weidman Run Rd., Greggsville Clinton and Potomac 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 Weidman Run Rd., Greggsville Clinton and Potomac 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

4706900207

R- wV+°

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 23 2015

Office of Oil and Gas WW Dept. of Environmental Protection

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

Notice has	ce Certification:		Commence of the commence of th	A DOMESTIC OF THE PARTY OF THE
		Operator's We	ell No. Shaw	n Couch OHI 206H
		Well Pad Nam		
		§ 22-6A, the Operator has provided the require	ed parties w	vith the Notice Forms lis
	tract of land as follows:	D		
tate:	WV	11TM NAD 93	5031.756	
County:	69-Ohio		44241.297	lood
District: Duadrangle:	3-Liberty		eidmans Run R	080
Vatershed:	247-Bethany Weidmans Run	Generally used farm name: Sha	awn Couch	
has provid formation r f giving the equirements irginia Cod	ed the owners of the surface described equired by subsections (b) and (c), see surface owner notice of entry to surface of subsection (b), section sixteen of	hall contain the following information: (14) A ped in subdivisions (1), (2) and (4), subsectication sixteen of this article; (ii) that the required reverse pursuant to subsection (a), section tendered f this article were waived in writing by the ender proof of and certify to the secretary that it.	ion (b), sec rement was of this artic surface ow	etion ten of this article, deemed satisfied as a re- cle six-a; or (iii) the no yner; and Pursuant to W
			~ .]	
hat the Ope	West Virginia Code § 22-6A,the Oprator has properly served the require ECK ALL THAT APPLY	erator has attached proof to this Notice Certif d parties with the following:	fication	OOG OFFICE USE ONLY
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that the Ope	rator has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	d parties with the following: NOTICE NOT REQUIRED BECAUSE	ENO O	ONLY RECEIVED/
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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.

Certification	of Notice is	hereby	given:
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Well Operator:

By:

Dee Southall

Its:

Regulatory Supervisor

Telephone:

304-884-1614

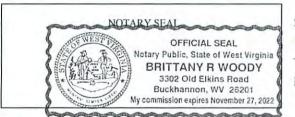
Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:

Email:

l: Dee_Southall@swn.com



My Commission Expires

Notary Public

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.

4706900207

Received

NOV 2 3 2015

Office of Oil and Gres
WV Dept. of Evolution www. | Protection

WW-6A (9-13) API NO. 47- 69 OPERATOR WELL NO. Shawn Couch OHI 206H
Well Pad Name: Shawn Couch OHI Pad

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

Date of Notice : 9	of the state of th
Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used i provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If	of the state of th
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Application Notice WSSP Notice	
100 mm on 23 to	be
☑ SURFACE OWNER(s) Name: Shawn W. Couch Trust C/O Joseph Moffo, Jr. ☑ COAL OWNER OR LESSEE Name: Windsor Coal Company	3.01
Address: 5503 Wood Duck Road Address: 100 Consol Energy Drive	15
Middleburg, FL 32068 Canonsburg, PA 26059 Now 2 3 20	15
Name: COAL OPERATOR —	
Address: Name:	
Address: Office of Oil and	Gas.
SURFACE OWNER(s) (Road and/or Other Disturbance)	Allion
Name: SURFACE OWNER OF WATER WELL	
Address: AND/OR WATER PURVEYOR(s)	
Name: *** See Attachment #1	
Name: Address:	
Address:	
OPERATOR OF ANY NATURAL GAS STORAGE FIELD	
SURFACE OWNER(s) (Impoundments or Pits) Name:	
Name: Address:	
Address:*Please attach additional forms if necessary	

Attachment #1

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

Landowner Shawn W. Couch Trust Address

5503 Wood Duck Road Middleburg, FL 32068

received

NOV 2 3 2015

Office of Oil and Gas
W/V Dept. of Environmental Protection

4706900202

API NO. 47-69

OPERATOR WELL NO. Shawn Couch OHI 206H

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 www.dep.wv.gov/oil-NOV 23 2015 and-gas/pages/default.aspx.

Well Location Restrictions

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

API NO. 47-69

OPERATOR WELL NO. Shawn Couch OHI 206H

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

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

NOV 2 3 2015

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

WW-6A (8-13) API NO. 47-69

DED ATOR WELL N

OPERATOR WELL NO. Shawn Couch OHI 206H

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 http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons:
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

4706900207

Received

NOV 2 3 2015

Compart Officer 1988

WW-6A (8-13) API NO. 47-69

OPERATOR WELL NO. Shawn Couch OHI 206H

Well Pad Name: Shawn Couch OHI Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

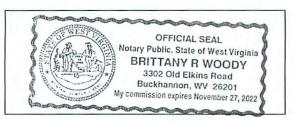
Telephone: 304-884-1614 Email: Dee_Southall@swn.com Address: P.O. Box 1300

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

day of

Notary Public

My Commission Expires

4706900207

Received

NOV 2 3 2015

Office of Oil and Gas WV Droit 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 I Date of Notice	Requirement: Notice shall be provided at e: 11/04/2015 Date Perr	least TEN (10) days prior to filing a nit Application Filed:	permit application.
Delivery meth	nod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		UESTED	
receipt request drilling a horiz of this subsect subsection ma and if available	zontal well: <i>Provided</i> , That notice given pion as of the date the notice was provided by be waived in writing by the surface owner, facsimile number and electronic mail ad	er notice of its intent to enter upon the pursuant to subsection (a), section to to the surface owner: <i>Provided, hower</i> . The notice, if required, shall includess of the operator and the operator	ne surface owner's land for the purpose of m of this article satisfies the requirements ovever. That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
	eby provided to the SURFACE OW Couch Trust C/O Joseph Moffo, Jr.	NER(s): Name:	NOV 2 3 2015
Address: 5503		Address:	MOA 52
Middleburg, FL 320		Address.	Office of Oil and Gas
Pursuant to W the surface ow State: County:	est Virginia Code § 22-6A-16(b), notice iner's land for the purpose of drilling a hor West Virginia Ohio	s hereby given that the undersigned izontal well on the tract of land as fo UTM NAD 83 Easting: Northing:	well operator has an intent to enter upon llows: 535,031.756 4,444,241.297
District:	Liberty	Public Road Access:	Harvey Road
Quadrangle:	Bethany	Generally used farm name:	Shawn Couch
Watershed:	Weidmans Run		
Pursuant to W facsimile num related to hori:	Shall Include: Vest Virginia Code § 22-6A-16(b), this re- ber and electronic mail address of the or- zontal drilling may be obtained from the 57 th Street, SE, Charleston, WV 25304 (3)	perator and the operator's authorize Secretary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters,
	eby given by:		
production and a second second	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	47 200	Jane Lew, WV 26378
Telephone:	304-884-1615	Telephone:	304-884-1615
Email: Facsimile:	steve_perkins@swn.com	Email: Facsimile:	steve_perkins@swn.com

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

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

Notice Time Date of Not	e Requirement: notice shall be province: 11/04/2015 Date Per	ided no later th mit Applicati	nan the filing on Filed:	date of permit	application.
Delivery m	ethod pursuant to West Virginia C	ode § 22-6A-1	6(c)		
	TIFIED MAIL	☐ HAND			
RETU	JRN RECEIPT REQUESTED	DELI	VERY		
return receip the planned required to be drilling of a damages to (d) The notion of notice.	of requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section a horizontal well; and (3) A propose the surface affected by oil and gas on	this subsection this subsection ten of this are disurface use perations to the given to the subwith the subwin the subwith the subwith the subwith the subwith the subwith the	er whose land on shall inclusticle to a surf and compense extent the darrface owner	d will be used for de: (1) A copy ace owner whose sation agreement amages are com	cation, an operator shall, by certified main the drilling of a horizontal well notice of of this code section; (2) The information seel and will be used in conjunction with that containing an offer of compensation for pensable under article six-b of this chapter sted in the records of the sheriff at the time.
	W. Couch Trust C/O Joseph Moffo, Jr.	at the time of i	Name:		NOV 2 3 2015
	03 Wood Duck Rd.	/	Addres		1404 5 2 5013
Middleburg, FL		<u>-</u>	Addres	o	
	West Virginia Code § 22-6A-16(c), no nother surface owner's land for the pur West Virginia	rpose of drillin	ig a horizonta	l well on the tra	well operator has developed a planned act of land as follows: 535,031.756
County:	Ohio		UTM NAD 8	Northing:	4,444,241.297
District:	Liberty		Public Road	Access:	Harvey Road
Quadrangle:	Bethany		Generally us	ed farm name:	Shawn Couch
Watershed:	Weidmans Run				
Pursuant to to be provide horizontal wasurface affecting information	ded by W. Va. Code § 22-6A-10(b) yell; and (3) A proposed surface use acted by oil and gas operations to the related to horizontal drilling may be, located at 601 57th Street, SE,	to a surface and compensa e extent the da be obtained fro	owner whose tion agreeme amages are co om the Secre	e land will be unt containing arompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der 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 depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

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

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

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 206H Received

NOV 2 3 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

4706900207

Very Truly Yours,

Dans K. Clayton

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

Ce: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Didecyl Dimethyl Ammonium Chloride Ethanol	007173-51-1 000064-17-5
	ALPHA 1427	Biocide	Glutaraldehyde	000111-30-8
			(Pentanediol) Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClauCara	Clay Stabilizar	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
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
	GW-SLDF		Polysaccharide Blend	N/A-021
	SCALETROL 720 XLW-32	Scale Inhibitor	Diethylene Glycol	000111-46-6
		Scale milibilot	Ethylene Glycol	000107-21-1
		Crosslinker	Boric Acid	010043-35-3
	ALVV-32		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 20150	200

Office of Oil and Gas WV Dept. of Environmental Protection

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
			Ethanol	000064-17-5
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8
ONESOURCE			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
	WBR-134	breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
	WC3-031LC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD	WDD 5041	5."	Potassium Carbonate	000584-08-7
	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
HECEIN 23	€ WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
Lien	onth		Water	007732-18-5
MON 53	Lote		Ethylene Glycol	000107-21-1
AM Debt of Ethnic	and Ges WXL-105L	Crosslinker	Boric Acid	010043-35-3
My Dob! of Euring			Ethanolamine	000141-43-5
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	p. i.e.	Diammonium Peroxidisulphate	7727-54-0
SCHLUMBERGER	EB-Clean* J475 Breaker	Breaker	Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	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
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

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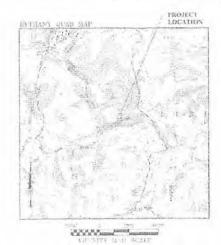
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Office of Oil and Gas WV Dept. of Environmental Protection

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SOUTHWESTERN ENERGY

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

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

WYDEP OOG ACCEPTED AS-BUILT VA 12/11/2015

AS-BETL I ACCESS RUAD REGISANCE NADS Laufund = N-40,148747 NADS Laufund = N-40,148747 NADS Laufund = N-40,148747 NADS Laufund = N-40,148746 NADS LAUfund = N-40,148746 NADS LAUfund = N-40,148746 NADS LAUfund = N-40,148746

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NOTES

Southwestern Energy

SOUTHWESTERN ENERGY 179 Chetageake Drin Jana Len, WV 26371 (304) 884-1618

SHEET INDEX

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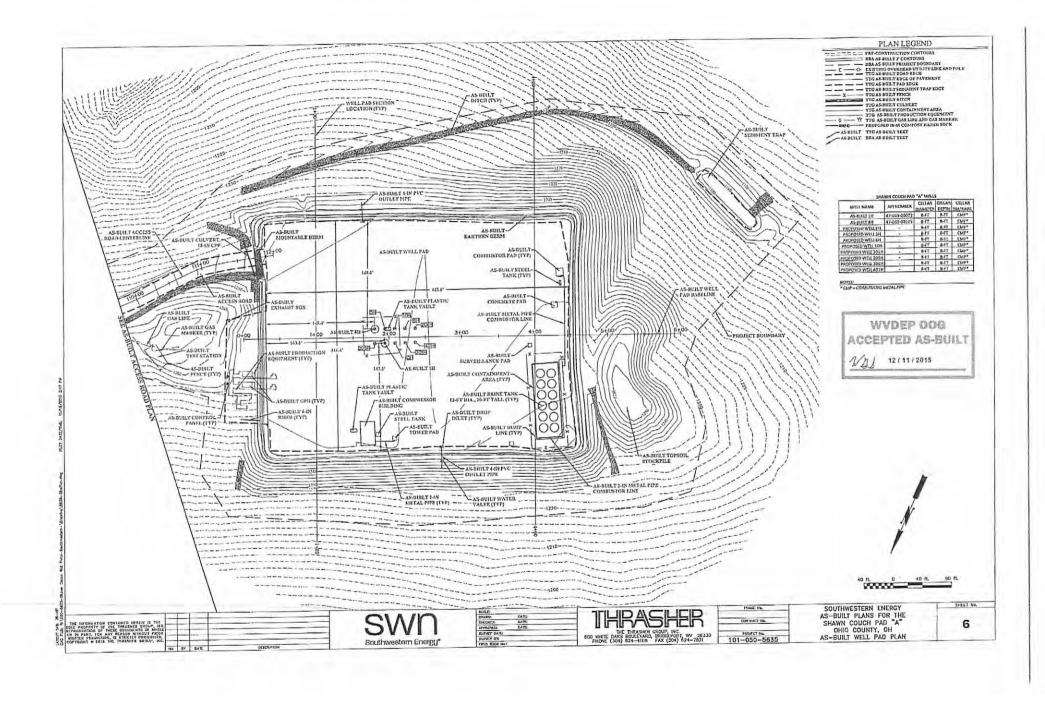
SHAWN COUCH PAD A VELLS

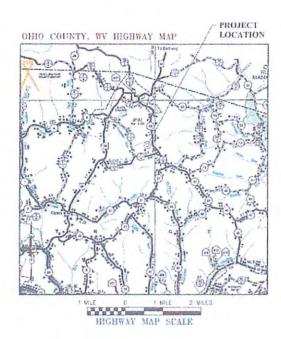
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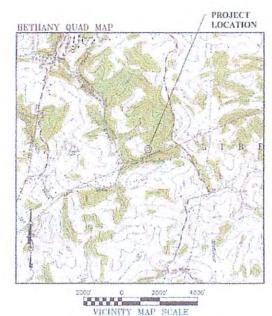
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AS-BUILT ACCESS ROAD BEGINNING NAB83 Latitude = N 40,148737° NAB83 Langitude = W 80,584406° UTM 83-17 Northing = 14581167.5010 ft. UTM 83-17 Easting = 1756663,1100 ft.

AS-BUILT CENTER OF WELL PAD NAD83 Laditude = N 40.147867* NAD83 Longitude = W 80.595565* ETM 83-17 Northing = 14580844.5644 R. UIM 83-17 Easting = 1755398.7053 R.

PROJECT LOCATION



ONE CALL UTILITY SYSTEM CONTACT INFO



CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM DE THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN STREETY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SURDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK.

THE INFORMATION CONTAINED HEREM IS THE BOLE PROPE DOCUMENTS IN WHOLE OR IN FART, FOR ANY SEASON -CONTRION O TOLS T

STERN ENERGY

T PLANS FOR THE COUCH PAD "A"

RICT, OHIO COUNTY, WV **/EMBER 2015**



PORTIONS OF THE ORIGINAL AS-BUILT SURVEY OF THIS SITE PROVIDED BY BOORD, BENCHECK & ASSOCIATES, INC (BBA) TO CHESAPEAKE APPALACHIA, LLC. IN JBLY 2011 HAVE BEEN INCORPORATED INTO THESE PLANS. THE BBA AS-BUILT SURVEY WAS FROVIDED TO THEASHER BY SOUTHWESTERN ENERGY IN SEPTEMBER 2015 AND INCLUDED CONTOURS, ROAD BEGGES, WELL HEAD LOCATIONS, ROSOSON AND SEDIMENT CONTROLS, ETC.

2. EXISTING ROAD EDGES, WELL PAD EDGE, GAS PRODUCTION EQUIPMENT, ABOVE GROUND PIPING, STORM WATER FEATURES, ETC. WERE VERIFIED AND AS-BUILT BY THRASHER SEPTEMBER 7615.

3. THE COORDINATE SYSTEM USED FOR THIS PROPECT IS UTM WITH NADS) DATUM 2009 12 BEGOT CENTEAL MERBURDAN BLUW.

DATUM, ZONE 17, US FOOT; CENTRAL MERIDIAN SHIW.

Southwestern Energy®

SOUTHWESTERN ENERGY 179 Chesapeake Driv-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	ASJIUJUT ACCESS ROAD PLAN & PROFILE	
fi	AS-BUILT WELL PAD PLAN	
7	AS-BUILT WELL PAD PROFILE & SECTIONS	
8	RECLAMATION PLAN	
4	RECLAMATION GENERAL NOTES	
10	RECLAMATION DETAILS	

SHAWN COUCH PAD "A" VELLS

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

4706900207



REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRETION	
					-
				1	

OF THE THRASHER CROWN, INC. REPRODUCTION OF THESE DOLL PROPERTY PROPERTY.

THE THRASHER GROUP, INC. 600 WHIE GAKS BOULEVARD - BRIDGEPORT, WY 26330 PHONE (304) 624-4108 • FAX (304) 624-7831

PREVAILING WINDS

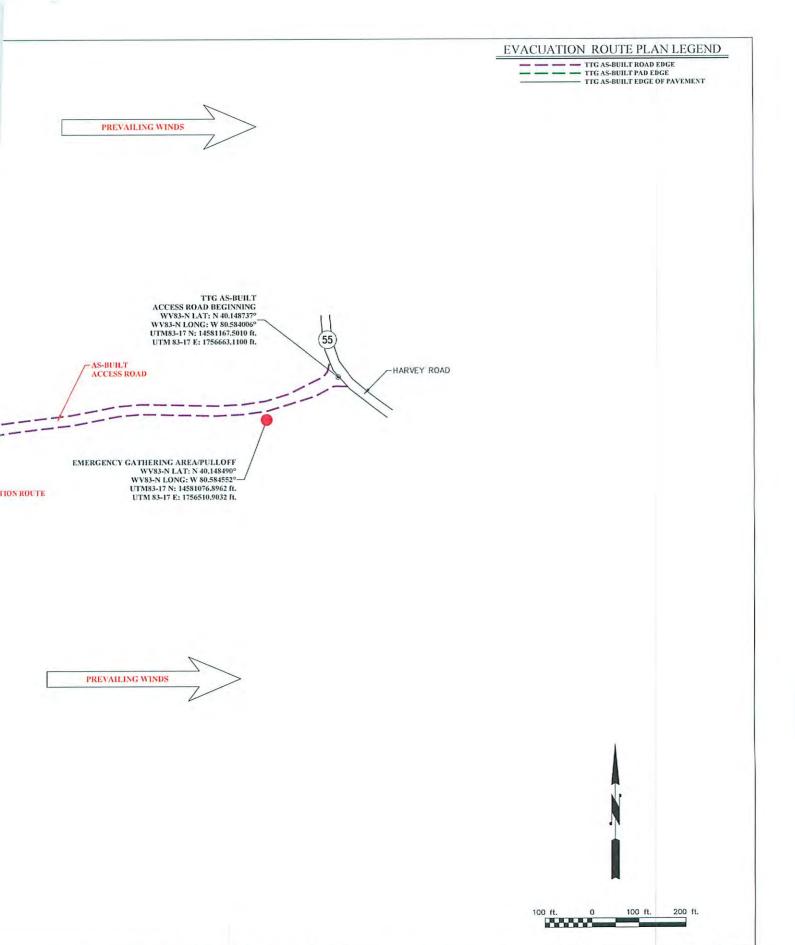
AS-BUILT WELL PAD EVACU TFG AS-BUILT
WELL PAD CENTER
WY83-N LAT: N 40.147867°
WY83-N LONG: W 80.588565°
UTM83-17 N: 14580844.5644 ft.
UTM 83-17 E: 1755390.7053 ft.

LAYOUT TAB: 02-E-Plan CAD FILE: R:\050-5635-Shawn Couch Well Plats-Southwestern-\Drawing\5635-EvacuationPlan-As-Bullt.dwg

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

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SURVEY DATE:
SURVEY DATE:
SURVEY DEC.



THE THRASHER GROUP, INC.
600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 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.

2

01/22/2016