

#### 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

February 25, 2016

#### WELL WORK PERMIT

#### Horizontal 6A Well

This permit, API Well Number: 47-900176, 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.

Operator's Well No: JAMES SEABRIGHT BRK 6H

Farm Name: SEABRIGHT, JAMES K. & MARTI

James Martin

**API Well Number: 47-900176** 

Permit Type: Horizontal 6A Well

Date Issued: 02/25/2016

API Number:	

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the corrections. 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.



PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

January 13, 2016

Ms. Laura Adkins Office of Oil & Gas 601 57<sup>th</sup> Street Charleston, WV 25304 4700900176

RE: Proposed New Well James Seabright BRK 6H & James Seabright BRK 8H

Dear Ms. Adkins

Enclosed please find the Well Work Permit Applications for the above captioned wells. These well are situated on the Seabright's property, in Buffalo District, Brooke County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you.

Sincerely,

Dee Southall

Regulatory Supervisor

Southwestern Energy Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Received

Office of Oil & Gas

JAN 1 4 2016

Received Office of Oil & Gas

JAN 1 4 2016

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

API NO. 47-69		
<b>OPERATOR WELL</b>	NO.	James Seabright BRK 6H
Wall Dad Name	James	Seabright BRK Pad

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

1) Well Opera	tor: SWN Prod	duction Co., LLC	494512924	009-Brooke	1-Buffalo	247-Bethany
			Operator ID	County	District	Quadrangle
2) Operator's '	Well Number: J	ames Seabright E	BRK 6H Well Pad	Name: Jame	s Seabrigh	t BRK Pad
3) Farm Name	/Surface Owner:	James & Martha Seabright; Life Estate & James	Public Roa	d Access: Bea	ılls Ridge F	Road
4) Elevation, c	urrent ground:	1129' El	evation, proposed	post-construction	on: 1129'	
5) Well Type	(a) Gas x	Oil	Unde	erground Storag	ge	
	Other					
	(b)If Gas Sh	nallow x	Deep			
	Н	orizontal x		d		
6) Existing Pac	d: Yes or No N	0			12	0 11.1018
		s), Depth(s), Antic get Top TVD- 6064', Ta				sociated Pressure- 3657
8) Proposed To	otal Vertical Dep	oth: 6084'				
9) Formation a	t Total Vertical	Depth: Marcellus	•			
10) Proposed T	Total Measured I	Depth: 15,667'				
11) Proposed H	Horizontal Leg L	ength: 9168.08'				
12) Approxima	ate Fresh Water	Strata Depths:	250'			
13) Method to	Determine Fresh	Water Depths: f	rom offset wells	0 0 9 0 0	175	
14) Approxima	ate Saltwater De	pths: 1133'				
15) Approxima	ate Coal Seam D	epths: 311'				
16) Approxima	ate Depth to Poss	sible Void (coal mi	ne, karst, other):	None that we a	are aware	of.
		on contain coal seam o an active mine?	ns Yes	No	x	
(a) If Yes, pro	ovide Mine Info:	Name:				
		Depth:				
		Seam:				
		Owner:	Recei	vou N. & Gas		
			Office of C			
			IVVI . Y	7.50		

OPERATOR WELL NO. \_\_James Seabright BRK 6H Well Pad Name: \_James Seabright BRK 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	48#	350'	350'	331 sx/CTS
Coal	9 5/8"	New	J-55	36#	1673'	1673'	648 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	15,677'	15,677'	Load 967sx tail 2145sx/100' inside internal
Tubing	2 3/8'	New	P-110	4.7#	Approx. 6084'	Approx. 6084'	
Liners			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							

5. FO 1110-15

**PACKERS** 

Kind:	10K Arrowset AS1-X	9901	76
Sizes:	5 1/2"	es a mais sort	
Depths Set:		Office of Oil & Gas	

IAM & 4 2016

WW-6B	
(10/14)	

API NO. 47- 69 OPERATOR WELL NO. James Seabright BRK 6H
Well Pad Name: James Seabright BRK Pad

19)	Describe pro	posed well	work.	including	the drilling	g and p	lugging l	back o	fany	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'-70' 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)	: 17.7
22) Area to be disturbed for well pad only, less access road (acres):	8

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 \*\*\*

<sup>4</sup>700900176

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.

Office of Oil & Gas

\*Note: Attach additional sheets as needed

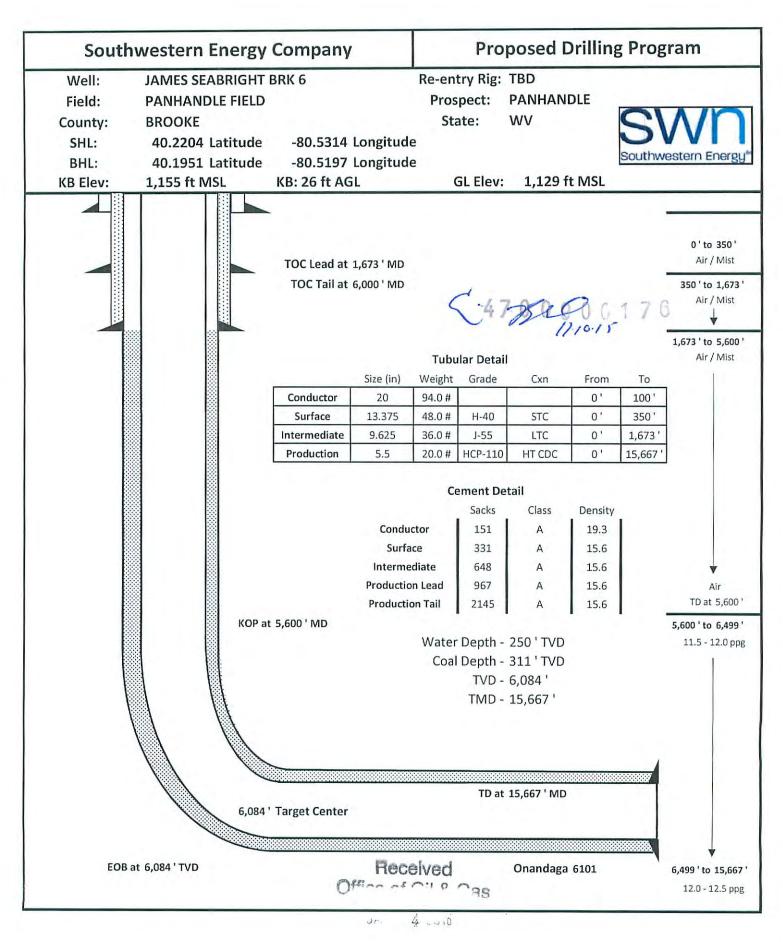
**Schlumberger Cement Additives** 

Schlamberger Cement Additives					
	Product Name	Product Use	Chemical Name	CAS Number	
Surface	S001	accelerator	calcium chloride	10043-52-4	
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4	
	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3	
₽	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	
ļ	-		polypropylene glycol	25322-69-4	
ä	D046	antifoam	fullers earth (attapulgite)	8031-18-3	
Production-Lead			chrystalline silica	14808-60-7	
Ęį	D201	retarder	metal oxide	propriatary	
ğ	j		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	
Į-	D065	dispersant	sodium sulfate	7757-82-6	
Production-Tail			chrystalline silica	14808-60-7	
mpc	D201	retarder	metal oxide	propriatary	
Prc	D153	anti-settling	chrystalline silica	14808-60-7	



Received
Office of OH & Gas

JAN 1 4 2016



API Number 47 -	69	£3
Operator's	Well No.	James Seabright BRK 6H

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

#### FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co	., LLC	OP Code 494512924
Watershed (HUC 10) Sugarcamp	Run, Buffalo Creek Qu	adrangle _247-Bethany
Elevation 1129'	County 009-Brooke	District 1-Buffalo
Will a pit be used? Yes	5,000 bbls of water to complete the p	
If so, please describe anti-	elpated pit waste.	in place at this time- cuttings will be taken to a permitted landfill.
Will a synthetic liner be u		If so, what ml.?
	od For Treated Pit Wastes:	
Land A	pplication round Injection (LHC Permit Number	2D0072539/ 2D0413175/ 2D0610306/ 2D0610317
		# will be included with the WR-34/DDMR &/or permit addendum.
Off Site	Disposal (Supply form WW-9 for di	sposal location) sel tanks and reused or taken to a permitted disposal facility.
Will closed loop system be used?		4700900176
Drilling medium anticipated for th	is well (vertical and horizontal)? Air,	freshwater, oil based, etc. Air crit to KOP, Fluid drill with SOBM from KOP to TD
-If oil based, what type?	Synthetic, petroleum, etc.Synthetic Oil B	ase
Additives to be used in drilling me	dium? see attached sheets	
Drill cuttings disposal method? Le	eave in pit, landfill, removed offsite, e	tc. landfill
-If left in pit and plan to s	olidify what medium will be used? (o	ement, lime, sawdust)
Arden Landtill 100/2, Ame	erican 02-12954, Country VVI	2, Northwestern SWF- 1026, Short Creek 1034WV0109517/CID28726, Carbon Limestone 28726/CID28726  QC 3839U/CID3839U, PINE Grove 13688
on August 1, 2005, by the Office of provisions of the permit are enforced law or regulation can lead to enforce application form and all attachmentaining the information. I believe	f Oil and Gas of the West Virginia Deceable by law. Violations of any terrocement action.  f law that I have personally examinents thereto and that, based on my	s of the GENERAL WATER POLLUTION PERMIT issued epartment of Environmental Protection. I understand that the mor condition of the general permit and/or other applicable and am familiar with the information submitted on this inquiry of those individuals immediately responsible for trate, and complete. I am aware that there are significant ne or imprisonment.
Company Official Signature		Office of QII & Gas
Company Official (Typed Name)_	Dee Southall	JAN 1 4 2016
Company Official Title Regulator	y Supervisor	
Subscribed and sworn before me the	ais Uth day of NOUN	OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY State of West Virginia BRITTANY R WOODY BUCkhannon, WV 26201 My commission expires November 27, 2022

Proposed Revegetation Treat	t min 3	110	1
Lime	Tons/acre or to corre	ct to pH 4.8	
Fertilizer type6			
Fertilizer amount Stra	aw 2.5	lbs/acre	
Mulch_		_Tons/acre	
		Seed Mixtures	
Te	mporary	Perma	nent
Seed Type White Grove	lbs/acre 15	Seed Type White Grove	Ibs/acre 15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20
Drawing(s) of road, location, provided)		land application (unless engineered plans inc	cluding this info have be
Attach: Drawing(s) of road, location, provided) Photocopied section of involv Plan Approved by:			cluding this info have bed
Drawing(s) of road, location, provided)  Photocopied section of involve Plan Approved by:			cluding this info have bed
Drawing(s) of road, location, provided)  Photocopied section of involve plan Approved by:		Received	3
Drawing(s) of road, location, provided)  Photocopied section of involv		>	d Gas

#### Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 051 Well name: James Seabright BRK 6H
Bethany, Quad
Buffalo, District
Brooke County, West Virginia

Submitted by: Danielle Southall	11/6/2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by:  Title: Oil + (pe) In	Date: 11.10.15
Approved by:	
	Date:
Title:	
SWN Production Co., LLC – Confider	ntial

Received Office of Oil & Gas JAN 1 4 2016



SOUTHWESTERN ENERGY JAMES SEABRIGHT BROOKE CO, WV SPIDER



## Weatherford<sup>®</sup>

Field: SOUTHWESTERN\_BROOKE CO, WV UTM NAD 83 (17N)
Map Unit: USFt Vertical Reference Datum (VRD):
Projected Coordinate System: NAD83 / UTM zone 17N

Site: JAMES SEABRIGHT

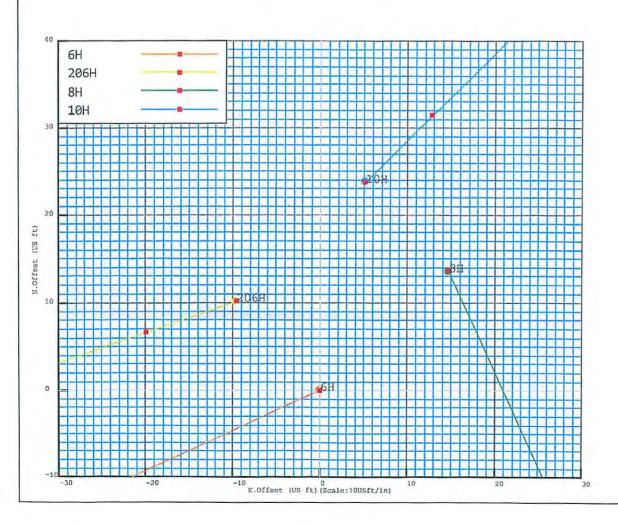
Unit: USFeet TVD Reference: Company Name: SOUTHWESTERN ENERGY

Northing: 14607341.70USft Latitude: 40°13'13.5"

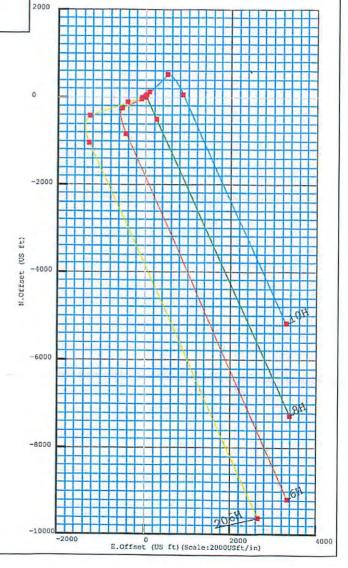
Easting: 1771219.17USft Longitude: -80°31'53.1"

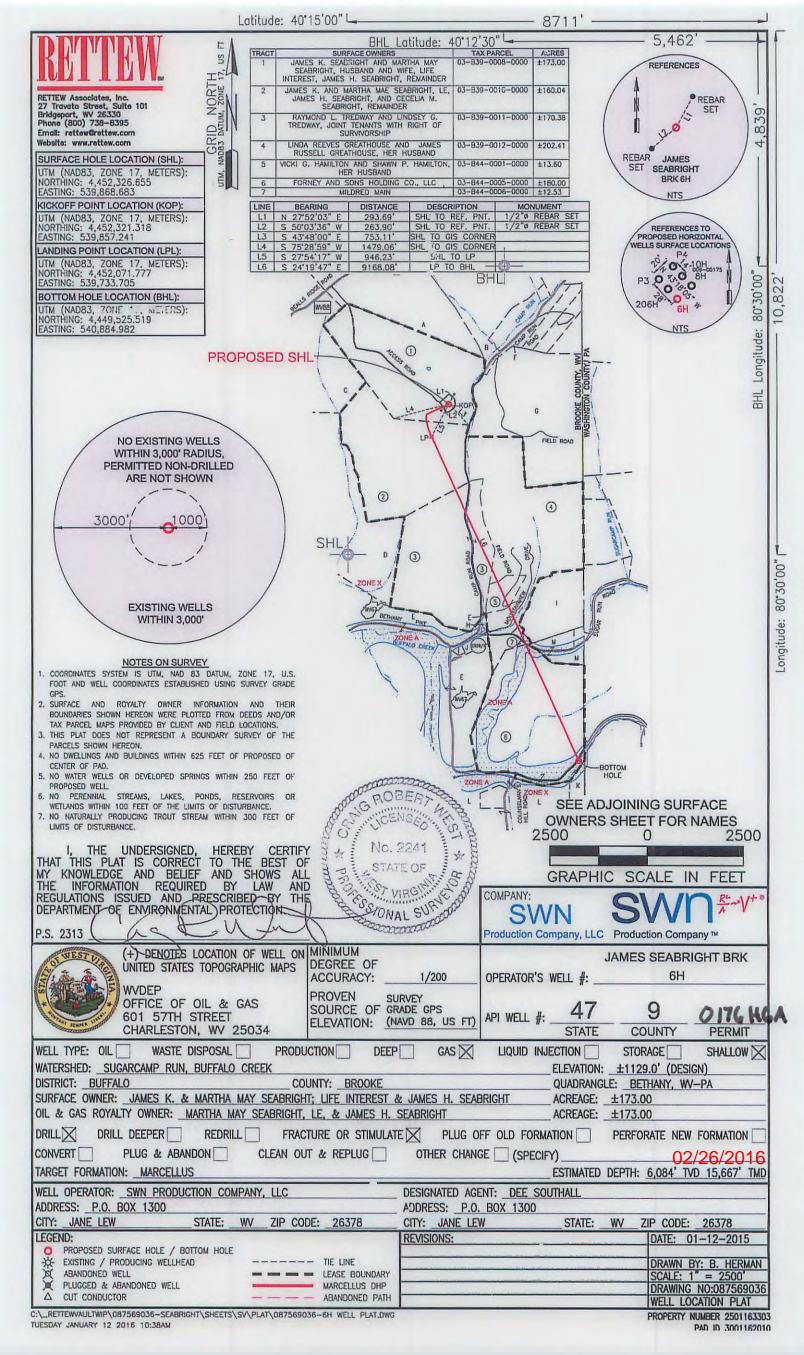
North Reference: Grid Grid Convergence: 0.30°

Elevation Above VRD: 1128.73USft



Position:





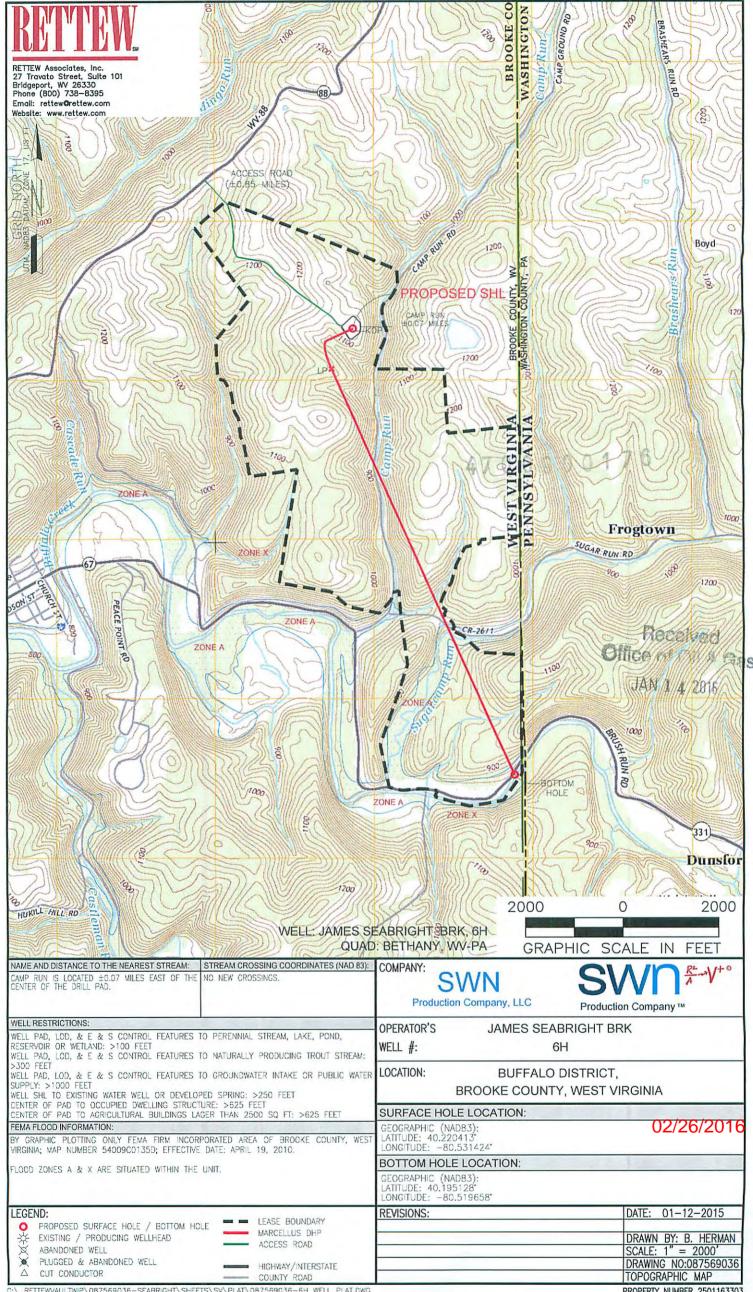


RETTEW Associates, Inc. 27 Travato Street, Sulte 101 Bridgeport, WV 26330 Phone (800) 738-8395 Email: rettew@rettew.com Website: www.rettew.com

#### ADJOINING SURFACE OWNERS

TRACT	ADJOINING SURFACE OWNER	TAX PARCEL	ACRES
А	MARK WEAVER OWEN AND VIRGINIA K. BEALL	03-B34-0049-0000	±243.93
В	NORMA J. SHIDOCK	03-B34-0050-0000	±190.25
С	MARK WEAVER OWEN AND VIRGINIA K. BEALL	03-B38-0019-0000	±249.00
D	MARK WEAVER OWEN AND VIRGINIA K. BEALL	03-B38-0024-0000	±188.00
E	GENE C. VALENTINE TRUST, DATED NOVEMBER 26, 1986	03-B43-0028-0000	±822.26
F	JOHN DANA GARNER	03-B39-0003-0000	±12.78
G	JAMES B. CALDWELL	03-B39-0009-0000	±182.63
Н	DONNA M. WEEKLEY	03-B44-0002-0000	±1.42
1	JAMES R. GREATHOUSE AND LINDA R. GREATHOUSE	03-B44-0003-0000	±73.57
J	CURTIS LEE NEEL AND LOUANN L. NEEL, JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B44-0007-0000	±3.97
K	LARRY AND DEBBIE DOUGLAS	03-B44-0012-0000	±11.00
L	STATE OF WEST VIRGINIA, DEPARTMENT OF COMMERCE, DIVISION OF NATURAL RESOURCES	03-844-0014-0000	±171.67
М	MILDRED MAIN	03-B44-0004-0000	±19.58

47-009-00176 02/26/201 COMPANY: REVISIONS: SWN 6A1 UPDATES 01-05-2016 6A1 FINAL 01-12-2016 Production Company, LLC Production Company™ DATE: 01-12-2015 OPERATOR'S JAMES SEABRIGHT BRK DRAWN BY: B. HERMAN SCALE: N/A DRAWING NO:087569036 ADJOINING OWNERS WELL #: 6H LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA



C:\\_RETTEWAULTWIP\087569036-SEABRIGHT\SHEETS\SV\PLAT\087569036-6H WELL PLAT.DWG TUESDAY JANUARY 12 2016 10:52AM PROPERTY NUMBER 2501163303 PAD ID 3001162010 WW-6A1 (5/13)

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

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

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

Lease Name or Number

Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

SEE EXHIBIT "A"

4700900176

#### Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- · WV Division of Natural Resources WV Division of Highways
- · U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

Received
Office of Control Gas

JAN 1 4 2016

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: SWN Production Company, LLC.

By:

Its:

Macey Wallace, Staff Landman

Page 1 of 1

#### EXHIBIT "A" Attached to and made a part of the State of West Virginio OII and Gas Permit Form, WW-6A1, by SWN Production Company, LLC., Operator James Seabright BUT 6H Brooke County, West Virginia

8	TMP	SURFACE OWNER	DEEDED ACREAGE	SWN LEASE #	CHK LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1)	03-839-0008-0000	James K. Seabright and Martha May Seabright, husband	173.00000	Pending	1-357949-000	Martha May Seabright, LE, James H. Seabright,	Chezapezke Appalachia, L.L.C.	18.0%	21/30
		and wife, Life Interest, James H. Seabright, Remainder				Remainder	SWN Production Company, LLC		31/499
2)	03-839-0010-0000	James K, and Martha Mae Seabright, LE, James H.	160.04000	730076-001	1-324223-001	Colonial Corporation, a Novada corporation	Range-Resources, Appalachia	14.0%	10/247
		Seabright, and Cocolla M. Seabright, remainder					Chesapeake Appalachia, L.L.C.		10/552
							SWN Production Company, LLC		30/480
				735677-001	47-000296-001	James K, Seabright and Martha May Seabright,	Chesspeake Appelachia, L.L.C.	18.0%	14/581
						husband and wife, Life interest, James H. Seabright and Cecella M. Seabright, Remainder	SWN Production Company, LLC		30/480
				783293-002	1-382539-002	Mary Io Burton	Chezapeake Appalachia, L.L.C.	18.0%	26/299
							SWN Production Company, LLC		30/420
				733293-001	1-382539-001	Nzomi Mzdalyn Jonas	Chesapeake Appalachia, L.L.C.	18.0%	26/335
							SWN Production Company, LLC		30/480
				733293-003	1-382539-003	Pamela Dorgen Burlingame	Chesapeake Appalachia, L.L.C.	18.0%	26/261
							SWN Production Company, LLC		30/480
				733293-004	1-382539-004	Linda Loe Roberts	Chesapeake Appalachia, L.L.C.	18.0%	26/267
						·	SWN Production Company, LLC		30/480
3}	03-839-0011-0000	Raymond L. Tradway and Lindsey G. Tredway, Joint	170,38000	730358-001	1-325534-000	Raymond L. Tredway, widower	Chesepozko Appolachia, LLC.	18.0%	17/187
		tenants with right of survivorship					SWN Production Company, LLC		30/480
4)	03-839-0012-0000	Linda Reeves Greathouse and James Russell	202.4109375	731331-001	1-329275-001	Unda Reeves Greathouse and James Russell	Chesapezke Appalechia, LL.C.	18.0%	11/162
		Greathouse, her husband				Greathouse, her husband	SWN Production Company, LLC		30/480
2)	03-844-0001-000C	Vicid G. Hamilton and Shawn P. Hamilton, her husband	13.60000	731819-001	1-342751-000	Vicki G. Hamilton and Shawn P. Hamilton, her husband	Cherapeske Appalachia, L.L.C.	18.0%	16/139
							SWN Production Company, LLC		30/480
ଗ	03-844-0005-0000	Forney and Sons Holding Co., LLC	180,00000	Pending	47-0000985-000	Forney and Sons Holding Co., LLC	Chezapeake Appalachia, L.L.C.	MOGL	29/723
							SWN Production Company, LLC		31/225
'n	03-844-0005-0000	Mildred Moth	12,53000	735505-001	47-000171-000	Mildred Main	Chesspeake Appalachia, L.L.C.	18.0%	12/507
							SWN Production Company, LLC	-	30/420
								e,	_
								į.	
							A () 12 1		
						1,			
_						斑	1053		
7	À					-			
•	7								

Received
Office of Oil 8, Gas
JAN 1 4 2016

#	TMP	SURFACE OWNER	DEEDED ACREAGE
1)	03-B34-0049-0000	Mark Weaver Owen and Virginia K. Beall	243.9300000
2)	03-B34-0050-0000	Norma J. Shidock	190.2500000
3)	03-838-0019-0000	Mark Weaver Owen and Virginia K. Beall	249.0000000
4)	03-B38-0024-0000	Mark Weaver Owen and Virginia K. Beall	188.000000
5)	03-B43-0028-0000	Gene C. Valentine Trust, dated November 26, 1986	822.2600000
6)	03-B39-0003-0000	John Dana Garner	12.7800000
7)	03-B39-0009-0000	James B. Caldwell	182.6312500
8)	03-B44-0002-0000	Donna M. Weekley	1.4230000
9)	03-B44-0003-0000	James R. Greathouse and Linda R. Greathouse	73.5720000
10)	03-B44-0007-0000	Curtis Lee Neel and Louann L. Neel, joint tenants with right of survivorship	3.9700000
11)	03-B44-0012-0000	Larry and Debbie Douglas	11.0000000
12)	03-B44-0014-0000	State of West Virginia, Department of Commerce, Division of Natural Resources	171.6700000
13)	03-B44-0004-0000	Mildred Main	19.5840000

4700900::

Received
Office of Oil & Gas
JAN 1 4 2016



PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

November 3, 2015

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57<sup>th</sup> St., SE Charleston, WV 25304 4700900176

RE: SWN's proposed James Seabright BRK 6H, James Seabright BRK 8H & James Seabright BRK 206H in Brooke County, West Virginia, Drilling under Camp Run Road, Mountainview Drive, Field Road, and Sugar Run Road.

Dear Ms. Adkins:

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

Thank you.

Sincerely,

Macey Wallace Staff Landman

SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Office of A Hope doing the Right Things,

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

ADIAL 47 co

		AFI No. 47-		A NOT THE RESERVE OF THE PARTY
			Well No. James	
		Well Pad Na	ame: James Se	eabright BRK Pad
Notice has b				
		22-6A, the Operator has provided the requ	iired parties wi	th the Notice Forms list
	tract of land as follows:			
State:	WV	111111111111111111111111111111111111111	539868.683	
County:	009-Brooke	Northing:	4452326.655	
District:	1-Buffalo		Bealls Ridge Road	
Quadrangle:	247-Bethany	Generally used farm name:	James Seabright	1170
Vatershed:	Sugarcamp Run, Buffalo Creek		0.0	1.1.0
orescribed by it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and s ed the owners of the surface describe equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o	every permit application filed under this hall contain the following information: (14) bed in subdivisions (1), (2) and (4), subsection sixteen of this article; (ii) that the required pursuant to subsection (a), section tef this article were waived in writing by the ender proof of and certify to the secretary the.	A certification (b), sect uirement was comen of this articate our surface own	n from the operator that ion ten of this article, leemed satisfied as a res le six-a; or (iii) the not ner; and Pursuant to W
Discount to V	Wast Vincinia Code \$ 22.64 the On	erator has attached proof to this Notice Cer	utiGantian I	
	rator has properly served the require		runcation	
2000	The same park and an incompany	d parties with the following.		OOG OFFICE USE
	CK ALL THAT APPLY	a parties with the following,		OOG OFFICE USE ONLY
*PLEASE CHE	ECK ALL THAT APPLY		SE NO	ONLY
*PLEASE CHE	ECK ALL THAT APPLY	■ NOTICE NOT REQUIRED BECAUS		ONLY  ☐ RECEIVED/
*PLEASE CHE	ECK ALL THAT APPLY			ONLY
*PLEASE CHE	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCT	ED	ONLY  RECEIVED/ NOT REQUIRED
*PLEASE CHE	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUS	ED	ONLY  RECEIVED/
*PLEASE CHE  1. NOT  2. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUSES SEISMIC ACTIVITY WAS CONDUCTOR OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF NO PLAT SURVEY WAS CONTINUED TO THE PROPERTY OF THE PROPERTY	ED NDUCTED	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED
*PLEASE CHE  1. NOT  2. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF NOTICE NOT REQUIRED BECAUSE	ED  NDUCTED  SE	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHE  1. NOT  2. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCT BY OF NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVI	ED  NDUCTED  SE	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED
*PLEASE CHE  1. NOT  2. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF NOTICE NOT REQUIRED BECAUSE	ED  NDUCTED  SE	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHE  1. NOT  2. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUS SEISMIC ACTIVITY WAS CONDUCT BY OF NO PLAT SURVEY WAS CONDUCTED NOTICE NOT REQUIRED BECAUS NOTICE OF ENTRY FOR PLAT SURVI	ED  NDUCTED  SE EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHE  1. NOT  2. NOT  3. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF PLAT SURVEY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACTORY	ED  NDUCTED  SE EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/
*PLEASE CHE  1. NOT  2. NOT  3. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV FICE OF INTENT TO DRILL OF	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF PLAT SURVEY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACTORY	ED  NDUCTED  SE EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED
*PLEASE CHE  1. NOT  2. NOT  3. NOT	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF PLAT SURVEY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACTORY	ED  NDUCTED  SE EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED  RECEIVED/ NOT REQUIRED
*PLEASE CHE  1. NOT  2. NOT  3. NOT  4. NOT  5. PUB	ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY OF FICE OF ENTRY FOR PLAT SURV FICE OF INTENT TO DRILL OF	■ NOTICE NOT REQUIRED BECAUSEISMIC ACTIVITY WAS CONDUCTORY OF NO PLAT SURVEY WAS CONDUCTORY OF PLAT SURVEY WAS CONDUCTED OF PLAT SURVEY WAS CONDUCTED OF WRITTEN WAIVER BY SURFACTORY	ED  NDUCTED  SE EY	ONLY  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED  RECEIVED/ NOT REQUIRED

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.

JAN 1 4 2016

#### Certification of Notice is hereby given:

THEREFORE, I , have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. Well Operator: SWN Production Co. LLC Address: P.O. Box 1300 By: Dee Southall Jane Lew, WV 26378 Its: Facsimile: Regulatory Supervisor 304-471-2497 Telephone: 304-884-1610 Email: Dee Southall@swn.com OFFICIAL SEAL Public, State of West Virginia NOPARTTANY R WOOD Subscribed and sworn before me this What day of You Mule Buckhannon, WV 26201

Oil and Gas Privacy Notice:

My commission expires November 27, 2022

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.

470000-176

Received Office of OII & Gas JAN 1 4 2016

Notary Public

API NO. 47- 69 OPERATOR WELL NO. James Seabright BRK 6H
Well Pad Name: James Seabright BRK Pad

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

		Date Permit Applicati	on Filed:	
Notice	of:			4 / O O O
<b></b> PI	ERMIT FOR ANY	CERTIFIC	ATE OF APE	PROVAL FOR THE
	VELL WORK	<del></del>		AN IMPOUNDMENT OR PIT
**	VELL WORK	CONSTRU		AVIMI GOVERNI OKTII
Deliver	ry method pursuant	to West Virginia Coo	de § 22-6A-10	(b)
☐ PE	ERSONAL 🗸	REGISTERED	□ метн	OD OF DELIVERY THAT REQUIRES A
-	ERVICE	MAIL		PT OR SIGNATURE CONFIRMATION
n	11.11.0.1.00		.1 (*1* 1.4	of the application, the applicant for a permit for any well work or for a
the surficial and places and personal and places are considered as the provide propose subsectification of the provision of t	ace of the tract on whigh gas leasehold being do ged in the erosion and so or or lessee, in the even of the sheriff required on of this article to the . § 35-8-5.7.a required	ich the well is or is propered by the propose ediment control plan sunt the tract of land on where of record of the surries to be used for the planed in section nine of the vater supply source located in by humans or domestics to take place. (c)(1) If shold interests in the land to be maintained pursual contrary, notice to a lies, in part, that the operate	osed to be located well work, if abmitted pursuanich the well pursuanich the well pursuant to seement, construits article; (5) Arted within one ic animals; and more than threads, the applicanant to section on holder is not tor shall also p	the well plat to each of the following persons: (1) The owners of record of ated; (2) The owners of record of the surface tract or tracts overlying the other than the surface tract is to be used for roads or other land disturbance as and to subsection (c), section seven of this article; (3) The coal owner, roposed to be drilled is located [sic] is known to be underlain by one or acts overlying the oil and gas leasehold being developed by the proposed function, enlargement, alteration, repair, removal or abandonment of any any surface owner or water purveyor who is known to the applicant to thousand five hundred feet of the center of the well pad which is used to the operator of any natural gas storage field within which the elements in common or other co-owners of interests described in the transport of the contents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any notice to a landowner, unless the lien holder is the landowner. W. Va. rovide the Well Site Safety Plan ("WSSP") to the surface owner and any as provided in section 15 of this rule.
🛭 Арр	lication Notice 🛛 V	WSSP Notice ☐ E&S	S Plan Notice	☑ Well Plat Notice is hereby provided to:
a SURI	FACE OWNER(s)			7 COAL OWNER OR LESSEE
_	• •	t, Life Estate & James H. Seabright		Name: Starvaggi Industries, INC.
	S: 1467 Camp Run			Address: 401 Pennsylvania Ave
	WV 26032			Weirton, WV 26062
Name:				COAL OPERATOR
Addres	S:			Name:
1 SLIRE	FACE OWNER(s) (R	load and/or Other Dist	urbance)	Address:
_	, , ,		•	☑ SURFACE OWNER OF WATER WELL
Address	s:			AND/OR WATER PURVEYOR(s)
				Name: See Attachment 1
Name:				Address:
Address	s:			
				OPERATOR OF ANY NATURAL GAS STORAGE FIELD
-	• • • • • • • • • • • • • • • • • • • •	mpoundments or Pits)		Name:
Name: _				Address:
aaress	s;			*Please attach additional forms it recessor
				*Please attach additional forms if necessary Office of Olive Gas

WW-6A (9-13) API NO. 47-69 OPERATOR WELL NO. James Seabright BRK 64
Well Pad Name: James Seabright BRK 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 later	and the street partition approximation.	
Date of Notice: Date Permit Application Filed:	11311	
Notice of:	111111	
	APPROVAL FOR THE	
WELL WORK CONSTRUCTION O	OF AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-	-10(b)	
☐ PERSONAL ☑ REGISTERED ☐ MET	THOD OF DELIVERY THAT REQUIRES A	
SERVICE MAIL REC	CEIPT OR SIGNATURE CONFIRMATION	
sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be lead to be leaded to be l	located; (2) The owners of record of the surface tract is, if the surface tract is to be used for roads or other larsuant to subsection (c), section seven of this article; (Il proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being devenstruction, enlargement, alteration, repair, removal or	or tracts overlying the and disturbance as  (3) The coal owner, e underlain by one or sloped by the proposed abandonment of any
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a Code R. § 35-8-5.7. a requires, in part, that the operator shall also	hree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is Code R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing.  Application Notice WSSP Notice E&S Plan Notice	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ling as provided in section 15 of this rule.  Well Plat Notice—is hereby provided to:	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a Code R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notice SURFACE OWNER(s)	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ling as provided in section 15 of this rule.  ICOAL OWNER OR LESSEE	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a Code R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing.  Application Notice WSSP Notice E&S Plan Notice SURFACE OWNER(s)  Name:	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ling as provided in section 15 of this rule.  Well Plat Notice—is hereby provided to:	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded to the sheriff requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notion SURFACE OWNER(s)  Name:  Address:	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.    Well Plat Notice   is hereby provided to:   COAL OWNER OR LESSEE   Name: TriEnergy, Inc.     Address: 412 Beaver Street, 2nd Floor   Sewickley, PA 15143	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the section of this article to the contrary, notice to a lien holder is recorded in the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notice Surface owners.    Surface owner(s)	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ice Well Plat Notice is hereby provided to:  COAL OWNER OR LESSEE  Name: Interest, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the applications of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the section of this article to the contrary, notice to a lien holder is recorded in the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notice Surface owners.    Surface owner(s)	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ice Well Plat Notice is hereby provided to:  COAL OWNER OR LESSEE  Name: Interest, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the contrary of the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notion SURFACE OWNER(s)  Name:  Address:  Name:  Address:	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ice Well Plat Notice is hereby provided to:  COAL OWNER OR LESSEE  Name: Interest, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the contrary of the provision of this article to the contrary, notice to a lien holder is recorded in the contrary of the provision of this article to the contrary of the provision of this article to the contrary of the population shall also water purveyor or surface owner subject to notice and water testing application Notice was provided water testing appl	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ice Well Plat Notice is hereby provided to:  COAL OWNER OR LESSEE  Name: TriEnergy, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR  Name:  Address: W	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the contrary of the provision of this article to the contrary, notice to a lien holder is recorded in the operator shall also water purveyor or surface owner subject to notice and water testing the provision Notice was provided water testing the provision Notice was placed in Notice water purveyor or surface owner subject to notice and water testing the surface owner subject to notice and water testing the surface owner subject to notice and water testing the surface owner.  Surface owner(s)  Name:  Address:  Surface owner(s) (Road and/or Other Disturbance)  Name:  Surface owner(s) (Road and/or Other Disturbance)	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ling as provided in section 15 of this rule.    Well Plat Notice   is hereby provided to:   COAL OWNER OR LESSEE   Name: TriEnergy, Inc.   Address: 412 Beaver Street, 2nd Floor   Sewickley, PA 15143   COAL OPERATOR   Name: Address: W	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va.
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded in the section of this article to the contrary, notice to a lien holder is recorded in the operator shall also water purveyor or surface owner subject to notice and water testing the section of the provided in the operator shall also water purveyor or surface owner subject to notice and water testing the section of the provided in the provided in the section of the section	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.    Well Plat Notice   is hereby provided to:   COAL OWNER OR LESSEE   Name: TriEnergy, Inc.   Address: 412 Beaver Street, 2nd Floor Sewickley, PA 15143   COAL OPERATOR   Name: Address: WILL AND/OR WATER PURVEYOR(s)	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any  Jann 1 5 2066  Office of Oil and Gas wy Dept. of Environmental Protection
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a Code R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Noting SURFACE OWNER(s)  Name:  Address:  SURFACE OWNER(s) (Road and/or Other Disturbance)  Name:  Address:  Address:  Name:  Address:	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.    Well Plat Notice   is hereby provided to:   COAL OWNER OR LESSEE   Name: TriEnergy, Inc.   Address: 412 Beaver Street, 2nd Floor Sewickley, PA 15143   COAL OPERATOR   Name: Address: WILL AND/OR WATER PURVEYOR(s)	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any  Jann 1 5 2066  Office of Oil and Gas wy Dept. of Environmental Protection
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is a Code R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing Application Notice WSSP Notice E&S Plan Notion SURFACE OWNER(s)  Name:  Address:  DSURFACE OWNER(s) (Road and/or Other Disturbance)  Name:  Address:  Address:  Mame:  Address:	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ICOAL OWNER OR LESSEE  Name: TriEnergy, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR  Name:  Address: W  SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name:  Address:	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any    Pecch   1 5 2066     1 5 2066     1 5 2066     2 5 20
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded as a section of this article to the contrary, notice to a lien holder is recorded as a section of this article to the contrary, notice and water shall also water purveyor or surface owner subject to notice and water testing a supplication Notice. WSSP Notice	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ICOAL OWNER OR LESSEE  Name: TriEnergy, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR  Name:  Address: W  SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name:  Address:	ell pad which is used to within which the sts described in son described in the ) Notwithstanding any e landowner. W. Va. surface owner and any  PECCEVED  Jann 1 5 2066  Office of Oil and Gas Webel. of Environmental Protection worders. The control of Environmental Protection of Charles
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded as 35-8-5.7. a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing. Application Notice. WSSP Notice. E&S Plan Notice. Surface Owner(s)  Name:  Address:  Surface Owner(s) (Road and/or Other Disturbance)  Name:  Address:  Surface Owner(s) (Road and/or Other Disturbance)  Name:  Address:  Surface Owner(s) (Impoundments or Pits)	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ICOAL OWNER OR LESSEE  Name: TriEnergy, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR  Name:  Address: W  SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name:  Address:  OPERATOR OF ANY NATURAL GAS ST Name:	ell pad which is used to within which the sts described in son described in the Notwithstanding any e landowner. W. Va. surface owner and any  Procedured  Jann 1 5 2066  Office of Oil and Gas Webel. of Environmental Protection worders. W. Dept. of Environmental Protection
provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is recorded as a section of this article to the contrary, notice to a lien holder is recorded as a section of this article to the contrary, notice and water shall also water purveyor or surface owner subject to notice and water testing a supplication Notice. WSSP Notice	and (6) The operator of any natural gas storage field whree tenants in common or other co-owners of interesticant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2 not notice to a landowner, unless the lien holder is the oprovide the Well Site Safety Plan ("WSSP") to the ing as provided in section 15 of this rule.  ICOAL OWNER OR LESSEE  Name: TriEnergy, Inc.  Address: 412 Beaver Street, 2nd Floor  Sewickley, PA 15143  COAL OPERATOR  Name:  Address: W  SURFACE OWNER OF WATER WELL  AND/OR WATER PURVEYOR(s)  Name:  Address:	ell pad which is used to within which the sts described in son described in the Notwithstanding any e landowner. W. Va. surface owner and any  Procedured  Jann 1 5 2066  Office of Oil and Gas Webel. of Environmental Protection worders. W. Dept. of Environmental Protection

Attachmen+#1

James Seabright BRK Pad - Water Purveyors w/in 1500'

Landowner

James Caldwell
James Seabright XX

**Address** 

1576 Camp Run Road, Bethany, WV 26032 1467 Camp Run Road, Bethany, WV 26032

A700900176

Received Office of Oil & Gas JAN 1 4 2016

OPERATOR WELL NO. James Seabright BRK 6H Well Pad Name: James Seabright BRK 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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting <a href="https://www.dep.wv.gov/oil-and-gas/pages/default.aspx">www.dep.wv.gov/oil-and-gas/pages/default.aspx</a>.

#### Well Location Restrictions

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

Office of Oil & 02/26/2016

OPERATOR WELL NO. James Seabright BRK 6H

Well Pad Name: James Seabright BRK 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 Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

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

Received
Office of Oil & Gas

JAN 1 4 2016

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.

OPERATOR WELL NO. James Seabright BRK 6H
Well Pad Name: James Seabright BRK 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.

Office of Oil & Gas JAN 1 4 2016

OPERATOR WELL NO. James Seabright BRK 6H

Well Pad Name: James Seabright BRK Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC Telephone: 304-884-1610

Email: Dee\_Southall@swn.com

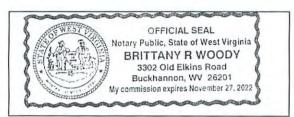
Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile: 304-471-2497

#### 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

4700900176

Office of Oil A Gas JAN 1 4 2016

## 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 le e: 11/04/2015 Date Perm	east TEN (10) days prior to filing a it Application Filed:	permit application.
Delivery meth	nod pursuant to West Virginia Code § 22-	-6A-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RETURN RECEIPT REQU	ESTED	
Pursuant to W receipt request drilling a horiz of this subsect subsection may and if available	. Va. Code § 22-6A-16(b), at least ten days ted or hand delivery, give the surface owner zontal well: <i>Provided</i> , That notice given put ion as of the date the notice was provided to be waived in writing by the surface owner e, facsimile number and electronic mail addreby provided to the SURFACE OWN	prior to filing a permit application, notice of its intent to enter upon the ursuant to subsection (a), section to the surface owner: <i>Provided, howers</i> . The notice, if required, shall includes of the operator and the operator	ne surface owner's land for the purpose of on of this article satisfies the requirements ovever, That the notice requirements of this ude the name, address, telephone number,
	Martha May Seabright, Life Estate & James H. Seabright		
Address: 1467		Address:	
Bethany, WV 2603		Address.	
the surface ow State: County:	ner's land for the purpose of drilling a horiz West Virginia Brooke	- UTM NAD 83 Easting: Northing:	539,868.683 4,452,326.655
TAY MIN ON	Buffalo		
District: Quadrangle:	Bethany	Public Road Access: Generally used farm name:	Bealls Ridge Road Seabright
Watershed:	Sugarcamp Run, Buffalo Creek	Generally used farm fiame.	Seabright
Pursuant to W facsimile num related to hori	Shall Include:  Vest Virginia Code § 22-6A-16(b), this not ber and electronic mail address of the operated drilling may be obtained from the Street, SE, Charleston, WV 25304 (30-4).	erator and the operator's authorize ecretary, at the WV Department o	ed representative. Additional information f Environmental Protection headquarters,
Notice is her	reby given by:		
Well Operator		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
	steve_perkins@swn.com	Email: Facsimile:	steve_perkins@swn.com
Telephone: Email: Facsimile:		Email:	

#### 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

Delivery me	thod pursuant to West Virginia (	Code § 2	22-6A-16(c)		
■ CERT	EIED MAII		HAND		
	FIED MAIL		HAND		
RETU	RN RECEIPT REQUESTED		DELIVERY		
eturn receip he planned equired to b Irilling of a lamages to ti d) The notice	t requested or hand delivery, give toperation. The notice required by e provided by subsection (b), section horizontal well; and (3) A proposine surface affected by oil and gas ones required by this section shall be	he surfa y this su on ten of ed surfa peration given to	ace owner whose land absection shall include this article to a surface use and compensate to the extent the dare of the surface owner at	will be used for e: (1) A copy ce owner whose tion agreemer mages are com	cation, an operator shall, by certified main or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
at the addres	reby provided to the SURFACE ( ss listed in the records of the sherifi & Martha May Seabright, Life Estate & James H. Seabrigh	f at the t	ime of notice):		
	a marina may acabilgin, the Estate a James H. acabilgi	II.	Name:		
	Camp Run Rd.		Address.		
Address: 146: Bethany, WV 260 Notice is her Pursuant to V	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu		Address:  s hereby given that the of drilling a horizontal	e undersigned well on the tra	
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County:	reby given: Vest Virginia Code § 22-6A-16(c),		Address:  s hereby given that the of drilling a horizontal  UTM NAD 83	e undersigned well on the tra Easting: Northing:	well operator has developed a planned
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County: District:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Brooke		Address:  s hereby given that the of drilling a horizontal	e undersigned well on the tra Easting: Northing: ccess:	well operator has developed a planned act of land as follows:  539,868.683  4,452,326.655
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County: District: Quadrangle:	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Brooke Buffalo		Address:  s hereby given that the of drilling a horizontal  UTM NAD 83  Public Road A	e undersigned well on the tra Easting: Northing: ccess:	well operator has developed a planned act of land as follows: 539,868.683 4,452,326.655 Bealls Ridge Road
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: Pursuant to V o be provid norizontal we ourface affect	reby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the put west Virginia  Brooke Buffalo Bethany Sugarcamp Run, Buffalo Creek  Shall Include: Vest Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(bell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE,	this not ) to a second extended obtain	s hereby given that the of drilling a horizontal  UTM NAD 83  Public Road A Generally used tice shall include: (1)/ourface owner whose mpensation agreement the damages are conined from the Secreta	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be a t containing an mpensable und ry, at the WV	well operator has developed a planned act of land as follows: 539,868.683 4,452,326.655 Bealls Ridge Road
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Vatershed: Fhis Notice Pursuant to V obe provid orizontal we urface affect information eadquarters	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Brooke Buffalo Bethany Sugarcamp Run, Buffalo Creek  Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(beth; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	this not ) to a second extended obtain	Address:  s hereby given that the of drilling a horizontal  UTM NAD 83  Public Road A Generally used tice shall include: (1) four face owner whose impensation agreement the damages are contined from the Secreta eston, WV 25304 (3)	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be a t containing an mpensable und ry, at the WV	well operator has developed a planned act of land as follows:  539,868.683  4,452,326.655  Bealls Ridge Road  Seabright  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 www.dep.wv.gov/oil-and-
Address: 146: Bethany, WV 260 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Vatershed: Chis Notice Pursuant to V obe provid orizontal we urface affect afformation of eadquarters, as/pages/de	reby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the put West Virginia Brooke Buffalo Bethany Sugarcamp Run, Buffalo Creek  Shall Include: West Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(beth; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	this not ) to a second extended obtain	Address:  s hereby given that the of drilling a horizontal  UTM NAD 83  Public Road A Generally used tice shall include: (1)/surface owner whose mpensation agreement the damages are conined from the Secreta eston, WV 25304 (2)  Address:	e undersigned well on the tra Easting: Northing: ccess: I farm name: A copy of this land will be a containing an inpensable uncery, at the WV 304-926-0450)	well operator has developed a planned act of land as follows:  539,868.683  4,452,326.655  Bealls Ridge Road  Seabright  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 <a href="https://www.dep.wv.gov/oil-and-nnovation-Drive">www.dep.wv.gov/oil-and-nnovation-Drive</a>

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.

Office of Oil & Gas

JAN 1 4 2016



#### WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

### **Division of Highways**

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 3, 2015

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

Subject: DOH Permit for the James Seabright Pad, Brooke County

James Seabright BRK 8H

Dear Mr. Martin,

**Earl Ray Tomblin** 

Governor

The West Virginia Division of Highways has issued Permit #06-2015-0659 for the subject site to Southwestern Energy for access to the State Road for the well site located off of WV 88 in Brooke County.

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.

470000 176

Very Truly Yours,

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

Day K. Clayton

Cc: Brittany Woody

Southwestern Energy CH, OM, D-6

File

Received Office of Oil & Gas

JAN 1 4 2016

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
	ClayCore	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
			Petroleum Distillate Blend	N/A-014
	GW-3LDF	Gel	Polysaccharide Blend	N/A-021
			Diethylene Glycol	000111-46-6
	SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-1
			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
and a transfer as a.	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

Received Office of Oil & Gas 4700900170 JAN 1 4 2016

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
	MIDIC 424	District	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
	WOO-OJILO	Olay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD			Potassium Carbonate	000584-08-7
Nes- # 700 (11 a 12)	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
nagivari	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
Received Office of Oil P	Man		Water	007732-18-5
JAN 1 4 201			Ethylene Glycol	000107-21-1
	WXL-105L	Crosslinker	Boric Acid	010043-35-3
			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		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

	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
COLULIMBEDOED	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
SCHLUMBERGER	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610	Ciossillikei	Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

4700900176

Received Office of Oil & Gas JAN 1 4 2016



# EROSION & SEDIMENT CONTROL PLAN FOR SEABRIGHT PAD BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA

#### GENERAL NOTES

- THE BOUNDARY AND TOPOCHAPHIC BURNEY FOR THE PROJECT AREA MERE PERFORMED IN PETICIN ASSOCIATES IN OCTOBER 2015.
- ARE BASED ON AVAILABLE COUNTY OF DATA

  1 FASTING STRUCTURES, THELL UNES AND HOADWAYS HAVE BEEN LOCATED HER AVAILABLE ONLINE.
- AFRAL PHOTOGRAPHY.

  A THE HORIZONIA DATUM IS WEST WINDING STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD
- BS), NORTH ZONE. 5. THE WESTCAL DATING IS NEST WINGHIS STATE HEAVE, HORTH AMERICAN VERTICAL DATING 198
- (NAVO 88) WHICH DIMONALLS FACILITY HOSP CONCAPANCE SHAVE?

  A MC RANGS SURVEY WAS PERIODED BY METERS ASSOCIATES IN DECIDER 2015.

  THE CONTRACTOR OF RESPONSIBLE FOR OBTAINING PRIOR TO CONSTRUCTION ALL METERSARY.
- a the CONTRACTOR GIALL COMPAY WITH ALL APPLICABLE PEOPLE STRIPL WID LOCK LIVER ME MICROLANDER AND MICROLANDER PEOPLE PEOPLE STRIPL WITH A PEOPLE P
- CHARMOS PROVIDED HAVE CONCLUDE AS REVIOL PROVIDED AS THE DUE SHE PRODUCTION OF THE CONCLUDE ASSESSMENT OF CONCLUDE
- RESPONSIBLE

  11 THE CONTRACTOR IS RESPONSIBLE FOR MALFING ALL PROJECT HONDING REQUIREMENTS WHO CONSTRUCTING FUELLY WERASTRUCTURE. ALL PROVATE CONSTRUCTION FOR SWI PRODUCTION.
- 12. 1. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE HEY DAMAGE TO PROVIDE HEY PROVIDE ACCESS TO ALL DAVES GUINNE CONSTRUCTION, HEITY UITAITY COMPAND LESSY LOCALION OF ALL LITUINES FROM TO the START OF CONSTRUCTION, AND PROTECTION OF THE LITUINES OF THE PROVIDENCE OF THE PROPERTY OF THE PROVIDENCE OF THE PROPERTY OF TH
- ALL URLIES TO PEANS IN SERVED.

  ALL URLIES TO PEANS IN SERVED DIRECT CONTROL OF THE PERSONNELLET FOR CORP PEANS IN SERVED AND THE PERSONNELLET FOR CORP PEANS. THE PEAN OF THE
- FOR YORK ON THE PROJECT.

  THE COMPANIES WHILL ARROW BY ALL AND CALL FEDERAL STATE, MIC LOCAL MEDICAL DESCRIPTION SHALL ARROW BY ALL AND CALL FEDERAL STATE, MIC LOCAL MEDICAL DESCRIPTION OF THE PROJECT OF THE PROJECT
- FOR TALL ADMICED FOR MORE RELATED TO SECURING THE COST OF CASES OF THE PROPERTY OF THE SECURITY OF THE SECURIT
- THE MAINING ALLOWAULE SLOPE FOR EARDERN AREAS IS 3-TO-1 HOW/FORTAL-TO-MERICO
  THE MAINING ALLOWAULE SLOPE FOR EARDERN AREAS IS 3-TO-1 HOW/FORTAL-TO-MERICO
  TO FROM TO FILE PLACEDURE, EXISTING SUBGRADE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM TO FILE PLACEDURE, EXISTING SUBGRADE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM TO FILE PLACEDURE, EXISTING SUBGRADE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM TO FILE PLACEDURE, EXISTING SUBGRADE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE SCARFED TO A MERICAN DESPRIE

  TO FROM THE PLACEDURE SHALL BE
- 6" DESTRIP ADMITTO TO COTTAIN, AND RE-COMPACTED TO THE SAME SOCIETY AND MOSTRIPS CONTROL AS THE PROPERTY ALL. IN APPARTS SCIECT FILE IS COUNCED AS UNFORMAT MEMBERS SAMEY CLAY TO CLASSY SAME WE A LOCUS LIMIT (LL) OF LESS DAYS IS POSCOTAL AND A PLESTICT WICKE (A) OF STITLENT AND IS. THE WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL WARDAIN SMALL BY PLACED AT LET'S FOOT EXCELLING CIDAL (8) WORLD AND ADMITTAL PROPERTY OF THE PR
- LODGE PHONESS :

  FILE MATTERS, SHALL BE COMPACTED TO A MEMBER OF SE PERCENT MAXIMUM STANDAR PROCEDS ON DESIGN OF CHARACTERS OF THE THE COMPACTION DEPERATOR. RE. MATTERS, SHALL BE INCOME. TO FRAME MORNING CONTENT.

  ACTUAL SHALL BE INCOME. TO FRAME MORNING CONTENT.

  DEPERATOR OF THE PROCEDURE OF
- TO STORM CHARACT PRINCE SHALL BE CONSTRUCTED OF A MINIMAN OF CLASS IS RESPONDED. CONCRETE PRIC (ROY, CORNICATED BETTA, PRIC (CUP), OR HOST-DOUGHT POLYTIFLENE, (ROYE). PRIC A MINIMAN OF 1.0° OR 1/20 OF COVEN SHALL BE MARTANIO, WITH USING DAY OF HOPE PRIC MINIMAN OUT WALL THOMPS'S SHALL BE MARTANIO, WITH USING DAY OF THE CAUSE.
- 21 COMPACTOR SHALL BE RESPONSIBLE FOR MANIARING THE CONSTRUCTION SITE CLEAR OF ALL TRASH AND EXISTS. 21 PRIOR TO ANY EARINGOINE EXCAVATION OR TOPSOL RESIDENCE, ADDICATE DRIVEN CONTROL
- 11 hai CONTRACTOR THALL HUTSET STABLISHION AND EXCOUNT CONTROL MEASURES AT A MANAGE OF CHIEF LIVER / DAYS OR WHIN 25 HOURS ATTER ANY STORM CONTROLLING AND A PART AND STORM CONTROLLING AND PLACE LIVER AND STABLISHING CONTROLLING CONTROLLING MEASUREMENT AND STORMER AND STABLISH OF AND MEASUREMENT AND STABLISH AND PLACE LIVER ME WHITE AND STABLISH AND AND STABLISH MEASUREMENT AND STABLISH AND STABLISH OF AND STABLISH AND
- COMPLETELY ESTABLISHED IN ACCORDANCE WITH APPLICABLE REQUARRANS UNTO PROJECT COMPLETOR.

  25 DISTURBED AREA! INAL ARE SEEDED OR SOCIOED SHALL RE CHECKED PERIODELALY ID SEE. THAT GAS'S COMMANDE IN PROPERTY WANTAMEND UNTO THE DIST COMPLETOR IS RELEASED FROM.
- THE JOS STELL DISTORATE DEED MAKE BY ANDREAD TO PROVIDE WE RESIDENCE TO BE THE CONTRACTOR OF THE PART OF THE CHARGE WAS READ SECTION AND ASSESSMENT AND ASSESSMENT OF THE THE DAY STELL TO SETTE PART OF THE CHARGES ALL WITE DEER ALL MODE.



PAD POND (MI (MOLOW & DRANCE)	
(35 a yer	
TOP HOLE LOCATION	
MERTICAL OUT & FILL AT PAID PRINCE POT CORNER OF CLOCK (PINK & BLACK STRIPE)	-
(BLUC & WATE STREE)	KEREE
UPATICAL CUT & FRE AT CENTERING ON EDGE OF ACCESS ONLY (DRANGE & BLACK STREET)	MANA:



## OPERATOR SW PRODUCTON CO., LLC PO BOX 1300 LAME 170, BV 763/18 (417) /HP-1016

#### LIMITS OF DISTURBANCE

- FAD 4.8 ADRES 80AD 12.9 ADRES 10(AL 17.7 ADRES
- E OWEN WARK NEAVER 1-0 ACRE MADERIAL LANES A 16-2 ACRE

#### SOILS CLASSIFICATION

GLE CHARMEY BUT LOAM, 3 TO AT ROPES GLE CHEMIET BUT LOAM, 8 TO 198 SLOPES GLE CHEMICAY BUT LOAM, 10 TO 258 SLOPES WILL WESTHORD AND SUT LOAM, 3 TO AT SLOPES

MED. HESTHORELAND SET LOAM, 15 TO 25 SLOPES

MATE MESTMONTIANO SET LOAM, 25 TO 358 SEPES
MESTMONTIANO SET LOAM, 35 TO 858 SEPES

#### CUT & FILL

CUI	PAD SITE + 9.842 CV	-16.375 CY	126 017 CV		
MET	+ 1.276 EY	- 1,276 CY	- 0 EV		
STONE	+ 2.187 CT	+ 1.045 CY	* 11,256 EF		
(DESCE	4 1441 (1	+ 5.142 ET	- 7,585 KY		

NOTES.

PAU IS 30."

THE DIT IS THE SUMMARY CALCULATIONS PRESENTED ON THE PEAN ARE FOR MICROMATIONAL PURPOSES ONLY IT SHALL BE THE COMMACTION HESPOSESULTY IN SERVICE STATUS OF COMMACTION HESPOSESULTY IN SERVICE STATUS OF COMMENTS AND COMMENTS.

PROCEDURES ANY ISSUES ARE TO BE REQUEST TO THE ENUMER'S AND COMMENTS.

#### LIST OF DRAWINGS

LIJI	UI	DIVATITIOS
1 OF 42	1000	COURS SHEET & DESIGNAL MORES
2 05 12		OWNAL STE PLAN
3 OF 41		
4 OF 41		DILARCED LAYOUT IN MY
2:05:41		
4 07 12		DILARCED LATOUT FLAM
7 OF AL		EROSON & SCHOOL COVERS PLAN
8.07 4T	41.00	PROSON & SEEMENT CONTROL PLAN
\$ OF 42		EROSON & SCHMENT CONTROL PLAN
10 OF 42		EXCESSIVE SECURIT CONTROL PLAY
11 OF 42	2000	. WY DEP EAS PLAN
12 OF 12		WY DEP EAS PLAN
13 05 47.		
14 OF 42		. WY DEP EAS PLAN
15 CF AZ		ACCESS DRIVE PROPRE
18 CF 41		ACCESS DRIVE PROFILE
17 05 43		ACTESS DRIVE PROFILE
18 CF 42		
19 OF 42		WELL PAG GROSS SICTIONS
70 OF +1		OKOSS SCCTIONS FLAN WER
21 OF 41	12225	- pages sections - Accres only
22 OF 47		CHOSS SECTIONS - ACCESS DAVE
2 + OF +2		CROSS SECTIONS - ACCESS DRIVE
25 OF 47	0.000	. CROSS SECTIONS - ACCESS DRIVE
28 OF 42		CROSS SECTIONS - ACCESS DRIVE
27 CF 47		CHOSS SECTIONS - ACCESS ONLE
28 OF 43		
29 OF 47		CHOSS SECTIONS - ACCESS DAVE
33 OF 42.	2 2 2 2 Y	CROSS SECTIONS - ACCESS ONLY
21 07 12		CROSS SECTIONS - ACCUST OFFICE
32 0 42		CROSS SCHOOLS - PAS
34 CF 42		. RECLAMATION PLAN
25 OF 42		RECLANATION PLAN
34 OF 42		PECLANATION IN AN
37 18 47		RECLAMATION PLAN
30 OF 47	17111	EVACUATION MOUTE FLAN
30 OF 43		EVACUATION HOUTE PLAN - USOS
AU CF 42		- NOTES & DETALS
41 OF 42		DETALS
45.75 43		

#### WEST VIRGINIA 811

CALL BEFORE Dial 811 or

AT LEAST AS HOURS, BUT NOT MORE BIAS TO MORNING DATE (EXCLUDING MERCHOS AND HOLLOWS), PRIOR TO TO STARTING ANY LARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THISSE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT BIT OR 1-800-240-448.

BIT OR 1-800-245-4645. DATE: 10/06/2015 | DOKET # 152/282420 INCLUSIVE STORM BY CHANGE POLICY (1)



5	-					
CHARDO, P.E.	PG0 97	24 OHO	PELDISON NO.			
PATRON C. D	DESCON BYE.	DELLAN BY	SARY, DIET.			

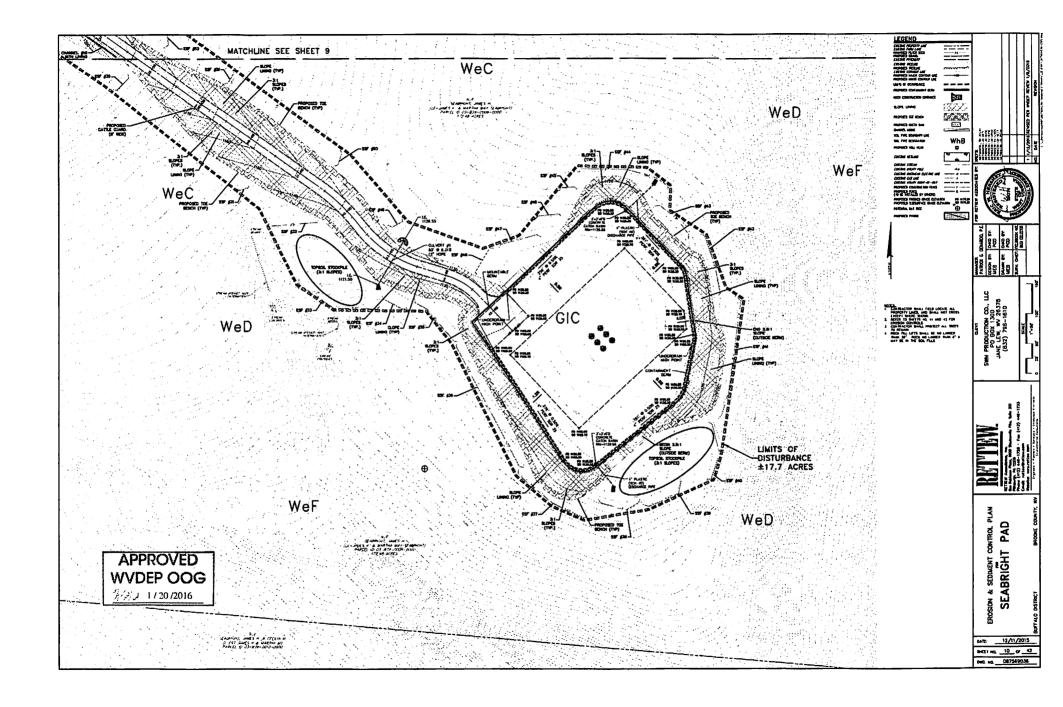
PRODUCTION CO., LLC PO BOX 1300 ANE LEW, WY 26376 (832) 796-1610



A THE ASSOCIATE OF THE

SEABRIGHT PAD

DATE: 12/11/2015 SHEET NO: 1 OF 42 DMC NO: 08/569036



# **EROSION & SEDIMEN SEABRIGI BUFFALO DISTRICT, BROOKE**

#### GENERAL NOTES

- THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THE PROJECT AREA WERE PERFORMED BY RETTEN ASSOCIATES IN OCTOBER 2013.

  PROFIELD ASSOCIATES IN OCTOBER 2013.

  PROFIELD SURVEY AND TOPOGRAPHIC SURVEY FOR THE PROJECT AREA WERE PERFORMED BY RETTEN ASSOCIATES, LANDOWNER INFORMATION AND ROAD NETWORKS SHOWN ON THIS PLAN ARE BASED ON AVAILABLE COUNTY GOS DATA.

  CUSTING STRUCTURES, TREE LINES AND ROADWAYS HAVE BEEN LOCATED PER AVAILABLE ONLINE AREAL PHOTOGRAPHY.

  THE HORIZONTAL DATUM IS WEST VIRGINIA STATE PLANE, NORTH AMERICAN DATUM 1983 (NAD 83), NORTH ZONE.

  THE VERTICAL DATUM IS WEST WIRGINIA STATE PLANE, NORTH AMERICAN VERTICAL DATUM 1986 (NAD 88) WHICH DRIGNATES FROM FIELD BUN TOPOGRAPHIC SURVEY.

  A WEILANDS SURVEY WAS PERFORMED BY RETTEW ASSOCIATES IN OCTOBER 2015.

  THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LOWS AND REGULATIONS, INCLUDING ALL SAFETY REQUIREMENTS.

  SIN PRODUCTION CO., LICG RESERVES THE RIGHT TO ACCEPT OR REJECT ANY AND ALL BIDS AT 11S DISGRETION. ALL WORK WILL BE PERFORMED UPON AND SUBJECT TO THE TERMS AND CONDITION TO SEND PRODUCTION CO., LICS MASTER SERVICE ARREMENT EXCLUTED BETWEEN THE CONTRACTOR SHALL BROWDED ADDITIONAL LABOR AND MATERIALS TO CONSTRUCTION UNDERFESTED THE CONTRACTOR SHALL BROWDED ADDITIONAL ALL WORK WILL BE PERFORMED UPON AND SUBJECT TO THE TERMS AND THE CONTRACTOR SHALL PROVDED ADDITIONAL LABOR AND MATERIALS TO CONFIDER THE WORK THE CONTRACTOR SHALL PROVDED ADDITIONAL LABOR AND MATERIALS TO CONFIDER THE WORK THE CONTRACTOR SHALL PROVDED ADDITIONAL LABOR AND MATERIALS TO COMPLETE THE WORK TO NOT THE BASSO OF THE STIP PLAN HORD WITH THE BASSO OF THE STIP PLA

- DEADLINE PROVIDED HERBIN. FAILURE TO TIMELY COMMENCE THE WORK PROVIDED FOR HERBIN MAY CAUSE DAMAGES TO SWN PRODUCTION CO., LLC FOR WHICH CONTRACTOR SHALL BE HELD RESPONSIBLE.

  HE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL PROJECT BONDING REQUIREMENTS WHEN CONSTRUCTION FOR SWN PRODUCTION.

  CO., LLC SHALL INCLUDE A MINIMUM. H-VERR WARRANTY OF FERFORMANCE.

  LIT SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR TO PREVENT ANY DAMAGE TO PRIVATE PROPERTY, PROVIDE ACCESS TO ALL DRIVES DURING CONSTRUCTION, NOTIFY UTILITY COMPANIES AND VERRY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND FROTECT PROPERTY, PROVIDE ACCESS TO ALL DRIVES DURING CONSTRUCTION, WORTH TUTLITY COMPANIES AND VERRY LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, AND PROTECT THE CONTRACTOR AND SHALL CONFORM TO THE LATEST MANUAL ON UNFORM TRAFFIC CONTROL DURING CONSTRUCTION.

  HE CONTRACTOR AND SHALL CONFORM TO THE LATEST MANUAL ON UNFORM TRAFFIC CONTROL OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SCHOOL OF CONSTRUCTION.

  HE CONTRACTOR SHALL ASIDE BY ALL APPLICABLE FEDERAL, STATE, AND LOCA, REGULATIONS SPECIFICATIONS FOR TREBUS SAFETY SYSTEMS AND LOCAS, REGULATION SPECIFICATIONS FOR TREBUS SAFETY SYSTEMS AND LOCAS, SHALL PROVIDE DETAILED TO SHALL SHALL

- RESTORATION THIS RESTORATION SHALL BE SUB-CCT TO THE OWNER'S APPROVAL MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE STANDARD THE RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE STANDARD THE STAND



STAKING FLAG LEGEND TOP OF CUTS GRADE AT TOP OF PAD/POND/PIT (YELLOW & ORANGE) TOES OF FILL. TOP HOLE LOCATION (PINK) VERTICAL CUT & FILL AT PAD/POND/PIT CORNER OR EDGE (PINK & BLACK STRIPE) LIMITS OF DISTURBANCE (BLUE & WHITE STRIPE) VERTICAL CUT & FILL AT CENTERLINE OR EDGE OF ACCESS DRIVE (ORANGE & BLACK STRIPE) EROSION & SEDIMENT CONTROL STRUCTURES (PINK & WHITE STRIPE) TOPSOIL STOCKPILE LOCATIONS (ORANGE & WHITE STRIPE)

CENTERLINE OF DITCH & BOTTOM OF SEDIMENT TRAPS



LIMITS OF DISTU

4.8 ACRES 17.7 ACRES



02/26/2016

# **CONTROL PLAN**

## IT PAD COUNTY, WEST VIRGINIA



#### SOILS CLASSIFICATION

GuD: GUERNSEY SILT LOAM, 15 TO 25% SLOPES WeC: WESTMORELAND SILT LOAM, 3 TO B% SLOPES YED: WESTMORELAND SILT LOAM, 15 TO 25 SLOPES WeE: WESTMORELAND SILT LOAM, 25 TO 35% SLOPES WEF: WESTMORELAND SILT LOAM, 35 TO 60% SLOPES

#### CUT & FILL

CUT	PAD SITE + 9,642 CY - 8,356 CY	DRIVE +15,375 CY -17,651 CY	SIIE +26,017 CY -26,017 CY
NET	+ 1,275 CY	- 1,276 CY	- 0 CY
STONE	+ 5,187 CY	+ 6,059 CY	= 11,256 CY
TOPSOIL	+ 2,443 CY	+ 5,142 CY	= 7,585 CY

NOTES.

1. THE TOPSOIL DEPTH FOR THE ACCESS DRIVE IS 5.6". THE TOPSOIL DEPTH FOR THE PAD IS 5.6".

2. THE CUT & FILL SUMMARY CALCULATIONS PRESENTED ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY EXISTING GRADES AND VERIFY EARTHWORK VOLUMES, METHODS AND PROCEDURES. ANY ISSUES ARE TO BE BROUGHT TO THE ENGINEER'S AND OWNER'S ATTENTION PRIOR TO COMMENCEMENT OF WORK.

#### LIST OF DRAWINGS

1	OF	42.							COVER SHEET & GENERAL NOTES
2	OF	42.							OVERALL SITE PLAN
3	OF	42.							ENLARGED LAYOUT PLAN
4	DF	42.							ENLARGED LAYOUT PLAN
5	OF	42.							ENLARGED LAYOUT PLAN
6	OF	42.	1		Ġ.				ENLARGED LAYOUT PLAN
7	OF	42						i.	EROSION & SEDIMENT CONTROL PLA
8	OF	42.			-				EROSION & SEDIMENT CONTROL PLA
9	OF	42.		7	i.				EROSION & SEDIMENT CONTROL PLA
10	OF	42.	٠		4		ď		EROSION & SEDIMENT CONTROL PLA
11	OF	42.			4		÷		WY DEP EAS PLAN
12	OF	42							WV DEP E&S PLAN
13	OF	42.						į,	WV DEP EAS PLAN
14	OF	42.					i	ì.	WY DEP EAS PLAN
15	OF	42.					ì		ACCESS DRIVE PROFILE
16	OF	42.	i		-			Ç	ACCESS DRIVE PROFILE
17	OF	42.	0	Ī.		C.	Û	ì	ACCESS DRIVE PROFILE
18	OF	42.		0			ï		ACCESS DRIVE PROFILE
19	OF	42.					ı		WELL PAD CROSS SECTIONS
20	OF	42.	٠.	÷	Ü	ī.	÷		CROSS SECTIONS PLAN VIEW
21	DE	42.					i		CROSS SECTIONS - ACCESS DRIVE
22	OF	42							CROSS SECTIONS - ACCESS DRIVE
23	OF	42.							CROSS SECTIONS - ACCESS DRIVE
24	DE	42.					÷		CROSS SECTIONS - ACCESS DRIVE
25	OF	42.							CROSS SECTIONS - ACCESS DRIVE
25	OF	42.					÷		CROSS SECTIONS - ACCESS DRIVE
27	OF	42							CROSS SECTIONS - ACCESS DRIVE
25	OF	42.					à		CROSS SECTIONS - ACCESS DRIVE
29	OF	42.							CROSS SECTIONS - ACCESS DRIVE
30	OF	42.							CROSS SECTIONS - ACCESS DRIVE
31	OF	42.							CROSS SECTIONS - ACCESS DRIVE
32	OF	42							CROSS SECTIONS - PAD
33	OF	42.							CROSS SECTIONS - PAD
34	OF	42.	۲.		c				RECLAMATION PLAN
35	OF	42.							RECLAMATION PLAN
36	OF	42.	4				4		RECLAMATION PLAN
37	OF	42.		٠,	Ų.	į.			RECLAMATION PLAN
38	OF	42.					,		EVACUATION ROUTE PLAN
**	art	40							DVACUATION DOUTE DIAN - HEGS

Received Office of Oil & Gas JAN 1 4 2016

**BANCE** 

RATOR



Dial 811 or CALL BEFORE YOU DIG! 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTRACT MISS LITLITY OF WEST VIRGINIA AT B11 CR 1-800-245-4848.

TICKET # 1527982490

