

west virginia department of environmental protection

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

January 08, 2016

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-5101873, 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: GLADY'S BRIGGS MSH 205H

Farm Name: JAMES R., ROGER J. & JOHN D. I

API Well Number: 47-5101873

Permit Type: Horizontal 6A Well

Date Issued: 01/08/2016

API Number: <u>51-61873</u>

PERMIT CONDITIONS

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

CONDITIONS

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

APINO. 47-57 - 01823 116A OPERATOR WELL NO. Gladys Briggs MSH 205H

Well Pad Name: Gladys Briggs MSH Pad

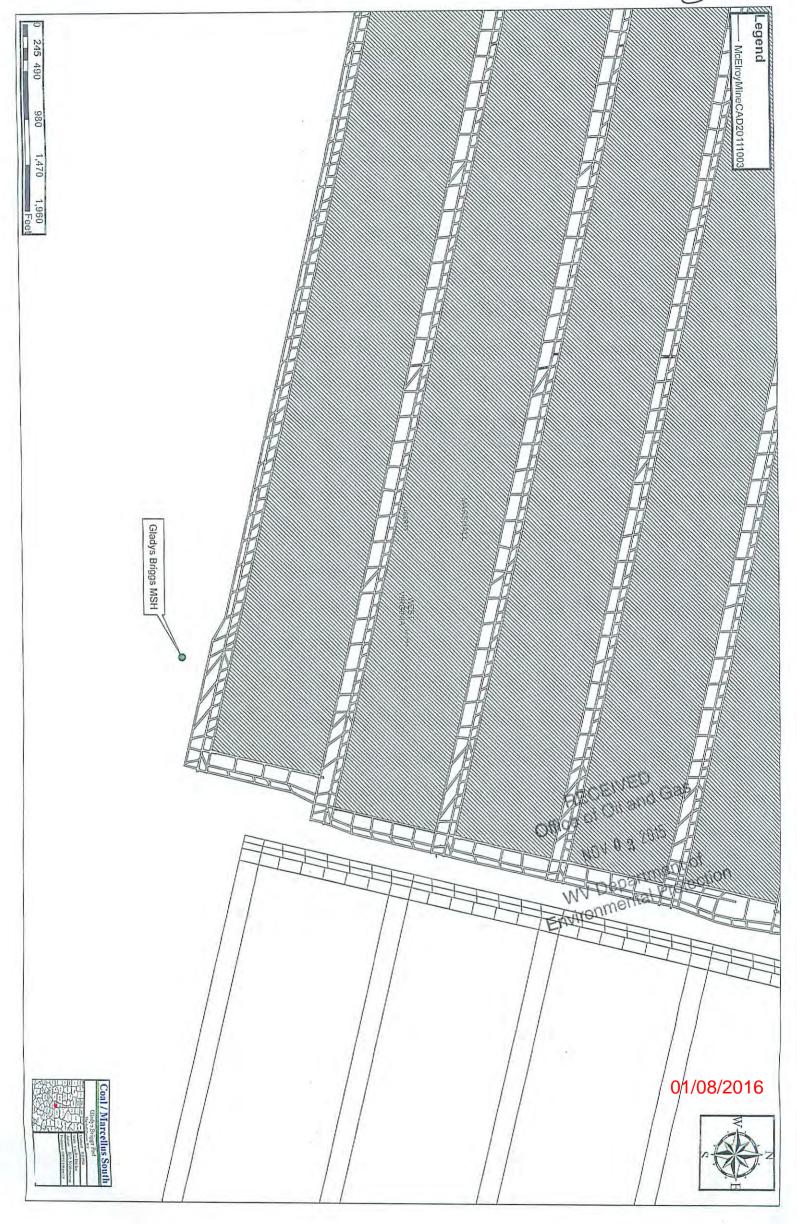
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **WELL WORK PERMIT APPLICATION**

1) Well Operate	or: SWN F	Production Co	., LLC	494512924				Cameron -	- 278
				Operator ID	County	y D	istrict	Quadrangle	
2) Operator's V	Vell Number	: Gladys Brig	gs MSI	1 205H Wel	l Pad Name:	Gladys I	Briggs N	ISH Pad	
3) Farm Name/	Surface Own	ner: Gladys R	R. Briggs	Public	Road Access	s: Fish C	reek Ro	oad	
4) Elevation, cu	irrent ground	d: <u>1382'</u>	Ele	vation, propo	sed post-con	struction:	1382'		
5) Well Type	(4) 545	X	Oil		Underground	Storage			
	Other								
	(b)If Gas	_	X 	Deep				15	
6) Existing Pad	· Ves or No		<u> </u>			de	10/	28/15	
7) Proposed Ta	rget Formati					ciated Pre	ssure(s):	•	essure- 1950
8) Proposed To	tal Vertical l	Depth: 7155'							
9) Formation at		-	arcellus						
10) Proposed T	otal Measure	ed Depth: - 16	5,549' -}	1331 1	6,5491				
11) Proposed H			30.83' <u></u>						
12) Approxima				732'					
13) Method to I	Determine F	resh Water De _l	pths: fr	om log anal	ysis and nea	arby wate	r wells		
14) Approxima	te Saltwater	Depths: 1741	1'						
15) Approxima	te Coal Sean	n Depths: 109	99'						
16) Approxima	te Depth to I	Possible Void (coal mir	ne, karst, othe	er):				
17) Does Propo directly overlyi				rs Yes <u>x</u>		No			
(a) If Yes, pro	vide Mine I	nfo: Name:	McElr	oy					
		Depth:	1099'				-DEIVE	D	
		Seam:	Pittsb	urgh		RE	of Oil s	and Gas	
		Owner:	Conse	ol Energy		Office	· · · · · ·	2015	
						1	401 a 3	2015	_

WV Department of Environmental Protection

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51-01873 HGA



API NO. 47- 69 - 0 1873 HGA

OPERATOR WELL NO. Gladys Briggs MSH 205H

Well Pad Name: Gladys Briggs MSH Pad

18)

CASING AND TUBING PROGRAM

ТҮРЕ	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	J-55	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	793'	793'	716 sx/CTS
Coal	9 5/8"	New	J-55	40#	2640'	2640'	986 sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	16,549'	16,549'	Lead 1030sx 1360 tall sx/100' inside inser #
Tubing	2 3/8'	New	P-110	4.7#	Approx. 7,155'	Approx. 7,155'	
Liners							

pc 10/28/15

ТҮРЕ	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Pressure to Oll	CALL .	(cu. ft./k)
Conductor	20"	30"	0.25	2120	0.020 0.020 0.020	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	0.020	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	വരനാവ	BALLIO A	cti950% Excess
Intermediate	7"	8 3/4"	0.317	4360	Elerazoumen	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360			1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

Kind:	10K Arrowset AS1-X		
Sizes:	5 1/2"	1.	
Depths Set:			

WW-6B	
(10/14)	

API NO. 47-51__- 6 1873
OPERATOR WELL NO. Gladys Briggs MSH 205H

Well Pad Name: Gladys Briggs MSH Pad

10) Describe managed well work including the drilling and plugging book of any pilot holes
19) Describe proposed well work, including the drilling and plugging back of any pilot hole: Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)
20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:
Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.
21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 8.4
22) Area to be disturbed for well pad only, less access road (acres): 4.9
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 easing RECEASING RECEASING GAS Office of Oil and Gas
24) Describe all cement additives associated with each cement type: WV Department of WV Department of wordal Protection
24) Describe all cement additives associated with each cement type: WV Department Of WV Department Of WV Department Of Environmental Protection
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.

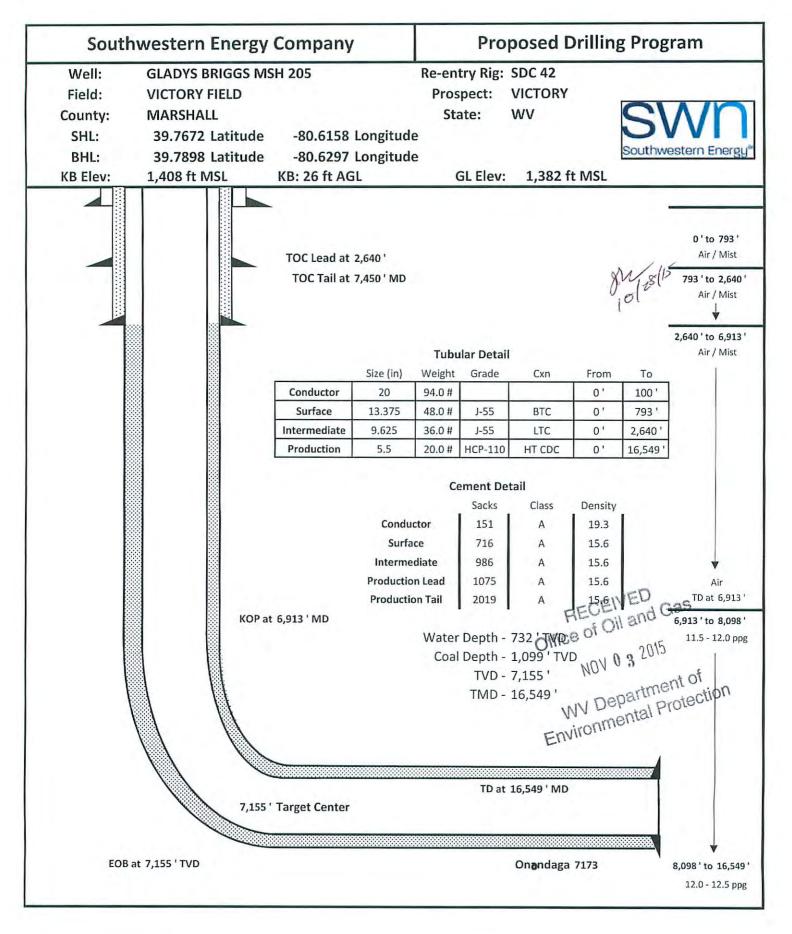
^{*}Note: Attach additional sheets as needed.

Schlumberger Cement Additives

		Schlamber	ger 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
<u> </u>	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
Kick Off Plug	D801	retarder	aromatic polymer derivative	propriatary
Kicl	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
ad	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
Ę.	D201	retarder	metal oxide	propriatary
ρqπο			sulphonated synthetic polymer	propriatary
Pro	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
- - -			sodium polynaphthalene sulfonate	9008-63-3
n-Ti	D065	dispersant	sodium sulfate	7757-82-6
Production-Tail			chrystalline silica	14808-50-21VED prophistory and Gas
npo	D201	retarder	metal oxide	prophatary 11 and Go
Prc	D153	anti-settling	chrystalline silica	2015

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WV Department of Environmental Protection



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)_Fish Cree	ek of Upper Ohio River 2 Qu	uadrangle Cameron	
Elevation 1382	County_Marshall	District_Liberty	
Will a pit be used? Yes If so, please describe an	melpated pit waste.	n in place at this time- cuttings will be taken to a permitte	d landfill.
Will a synthetic liner be	e used in the pit? Yes No _L hod For Treated Pit Wastes:	If so, what ml.?	
Land Unde Reuse	Application rground Injection (UIC Permit Number (at API Number_at next anticipated well, Al ite Disposal (Supply form WW-9 for d	her_2D0072539/2D0413175/2D0610306/2D0610317 API# will be included with the WR-34/DDMR &/or permit addendudisposal location) steel tanks and reused or taken to a permitted disposal	m.)
Will closed loop system be used	? If so, describe: Yes		
Drilling medium anticipated for	this well (vertical and horizontal)? Air	r, freshwater, oil based, etc. Air and salt saturate m	nud
-If oil based, what type	? Synthetic, petroleum, etc. Synthetic Oil	Base	
Additives to be used in drilling r	nedium? see attached sheets		
Drill cuttings disposal method?	Leave in pit, landfill, removed offsite,	etc. landfill	
	o solidify what medium will be used? (**************************************	
Arden Landfill 100/2, Ar	nerican 02-12954, Country VV	992, Northwestern SWF-1025, Short Creek 1034WV0109517/CID28726, Carbon Limestone 28 7/IGE 3839U/CID3839U, PINE GROVE Tons of the GENERAL WATER POLLUTION P	3688
on August 1, 2005, by the Office provisions of the permit are enflaw or regulation can lead to enflaw or regulation can lead to enflavoration form and all attack obtaining the information, I be	e of Oil and Gas of the West Virginia Dorceable by law. Violations of any terorcement action. of law that I have personally examinments thereto and that, based on my	Department of Environmental Protection. I under or condition of the general permit and/or or need and am familiar with the information submy inquiry of those individuals immediately recurate, and complete. I am aware that there	erstand that the ther applicable omitted on this responsible for
Company Official Signature		A PLOT Oil at	nd Gas
Company Official (Typed Name		NOV 0 3 5	015
Company Official Title Regula	tory Supervisor	NOV 0 3	- of
Subscribed and sworn before me	this 27th day of OWO	Notary Public	of of of or other or

Gladys Briggs MSH 205H Operator's Well No._ Form WW-9 SWN Production Co., LLC Proposed Revegetation Treatment: Acres Disturbed 8.4 Prevegetation pH as determined by pH lest min. 2 Tons/acre or to correct to pH 10-20-20 Fertilizer type Fertilizer amount 600 lbs/acre Mulch Hay/Straw 2.5 Tons/acre **Seed Mixtures Temporary** Permanent Seed Type lbs/acre Seed Type lbs/acre 15 White Grove White Grove 15 Red Top 15 Red Top 15 **Orchard Grass** 20 **Orchard Grass** 20 Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by:__ Comments: Office of Oil and Gas

NOV 0 3 2015

NOV Department of

WV Department al Protection

No

No Title: Oil and Gas Inspector

Field Reviewed?

Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 051 Well name: Gladys Briggs MSH 205H
Cameron, Quad
Liberty, District
Marshall County, West Virginia

Submitted by: Danielle Southall	10/20/2015 Dates
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by: Title: 0; of Ges Inspector	Date: 12/28/15
Approved by: Title:	Date:

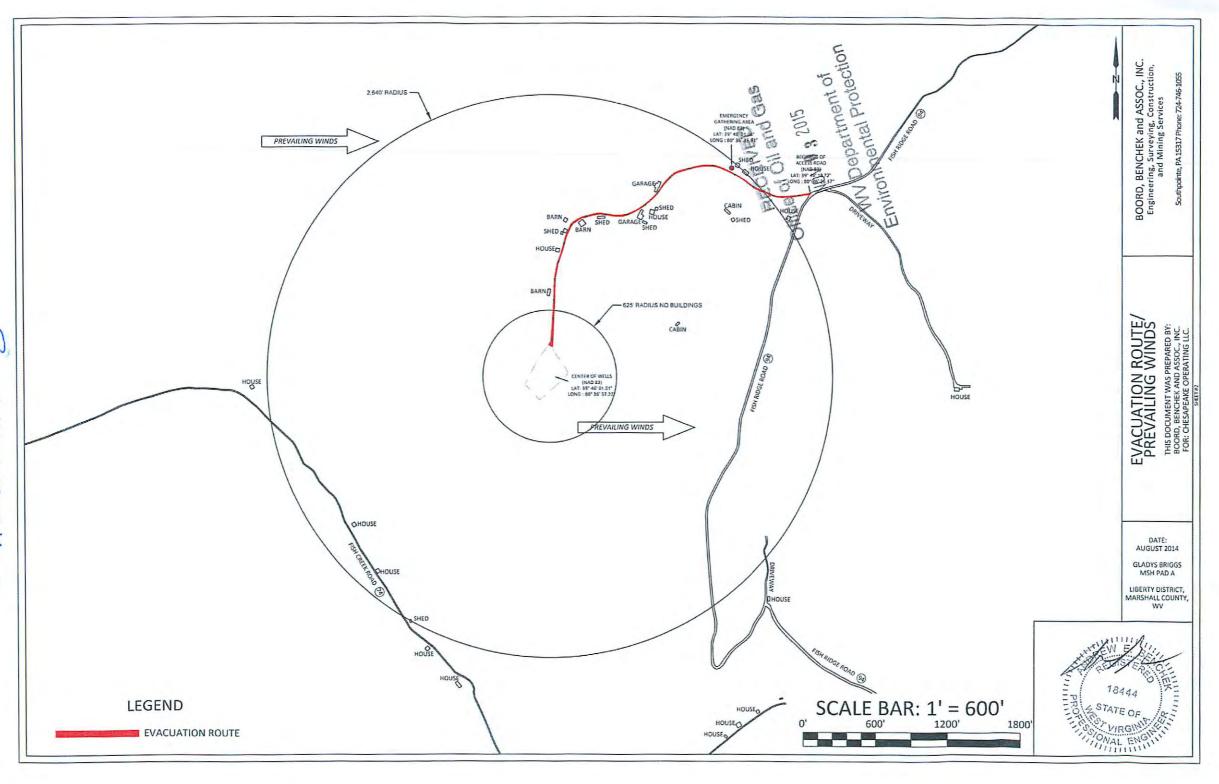
SWN Production Co., LLC - Confidential

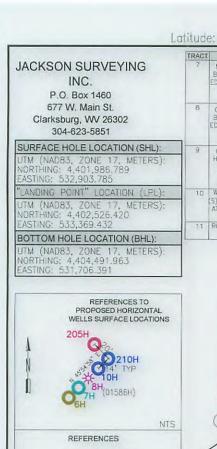
Office of Oil and Gas

NOV 0 3 2015

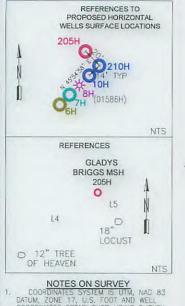
WV Department of
Environmental Protection

A Hachment 45





RACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
7	MARILYN V. CLARK (S)/ SARAH JANE KINGREE & BEN KINGREE III. ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS	07-10-04.1		1	JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS, JOHN DEAN BRIGGS (S)/ DAVID BONAR, HARRISON J. BRIGGS & GLADYS R. BRIGGS (R)	7-16-02	121.43
	COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLADYS REYNOLDS			2	PRESTON YEATER & HEATHER L. YEATER (S)/ JAMES M. RINE & MARY B. RINE, FRANK HOPKINS	07-16-29.4	17,91
8	CHARLES R. CLARK (S)/ SARAH JANE KINGREE &	07-10-04	46.72		& AUSTIA M. HOPKINS (R)		
	BEN KINGREE III, ALEXANDER FÖSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FÖSTER REYNOLDS, AS COMMITTEE FÖR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLADYS REYNOLDS			3	VINCENT E LEMASTERS (S)/ PEARL LOUGH F/K/A PEARL WILLIAMS, A JANE DAVIS, RONALD YOUNG, O.W. YOUNG A/K/A ORVILLE W YOUNG, GUY BUZZARD, D. VANE STARKEY, HOWARD E WILLIAMS,	07-10-24	44.08
9	CHARLES R. CLARK (S)/S.N. COLE & IDA COLE HILDA PEL SINCO & MUHAEL SINCO, ALEXANDER FOSTER REYNOLDS; ADA REYNOLDS, ALEXANDER FOSTER REYNOLDS AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON. (R)	07-10-01	48.78		PALPH E WILLIAMS, HARRY E JOHNSON SR, JAMES L MERCER, Æ ELSIE J. MERCER, ALMA O. PIERCE, ELNOR M. HORNER A/K/A ELNOR MARIE HORNER, SANDRA K. DODD A/K/A SANDY K. DODD, DONALD L. WITHERS, WILLIAM G. WITHERS III, KARON SUE		
10	(S)/ WILLIAM K. WALTON, MARIETTA STOVER, BY HER ATTORNEY-IN-FACT MARVIE S. ALEXANDER, MARGIE	07-07-04	156.00		VALLEE A/K/A KAREN SUE VALLEE, DELMAR W. WILLIAMS & MARY LOU WILLIAMS, NILE L. WILLIAMS, LARRY C. WILLIAMS, CHESTNUT HOLDINGS INC. (R)		
	M. DAVENPORT (R) RONALD WM. KASSERMAN (S)/ WILLIAM WOODBURN	07 00 00	170 15	4	JAMES M. CLARK (S)/ OLIVE PRENDERGAST (R)	07-10-09	
4.1		07-08-09	130,15	5	MARILYN V. CLARK (S)/ OLIVE PRENDERGAST (R)	07-10-11	25.00
	& ANN B. WOODBURN (R)			6	MARIUN V. CLARK (S)/ SARAH JANE KINGREE & BEN KINGREE III, ALEXANDER FOSTER REYNOLDS & EDTH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLAVYS REYNOLDS	07-10-05	34.02



NOTES ON SURVEY
COORDINATES SYSTEM IS UTM, NAD 83
DATUM, ZONE 17, U.S. FOOT AND WELL
COORDINATES ESTABLISHED USING SURVEY
GRADE 6PS.
SURFACE AND ROYALTY DWNER
INFORMATION AND THEIR BOUNDARIES SHOWN
HEREON WERE PLOTTED FROM DEEDS
AND/OR TAX PARCEL MAPS PROVIDED BY
CUENT AND FIELD LOCATIONS.
THIS PLAT DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE PARCELS SHOWN
HEREON.

BOUNDARY SURVEY OF THE PARCELS SHO HEREON.

NO DWELLINGS AND BUILDINGS WITHIN 525 FEET OF PROPOSED OF CENTER OF PAD.

SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 1000
FEET OF THE LIMITS OF DISTURBANCE.

NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

ALL WELLS WITHIN 500 OF THE HORIZONAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.

	\$1003-P \$(17)
	EXISTING WELLS WITHIN 3,000
107	484
(AA) (17) (2) (2)	205H
	01586H 048) 0284P
2) BOUTOM HOLE	328-P (19) (16) (16) (16) (16) (16)
1 5.02	(19) A435 (19) A77 (19) NTS
MAGGOTY RUN	982 On (19)
(B) (E)	(16) (1314-0
(X) -94-P (23)	SWN PRODUCTION
E 992-P (7) 968-P (7) 968-P (7) CAMERO	N RIDGE RD. COMPANY, LLC
TEL O O	"GLADYS BRIGGS MSH
	205H" SURFACE HOLE
DATUM, ZO	——— ELEV: 1,382.2'
071-P	
SOM (13)	(A) (D)
R	804 3
	(5) Chan (14) K

LINE	BEARING	DISTANCE	DESCRIPTION
Li	5 61'44'23" W	784.37	SHL TO CNR FP
12	N 26'00'21" E	1,561.53	SHL TO ROOFBOLT
L3	N 40'47'27" E	2,338.45	SHL TO LPL
L4	S 48'57'02" W	535.03'	SHL TO 12" TREE OF HEAVEN
15	S 32'26'41" E	200.56	SHL TO 18" LOCUS
L6	N 64'49'07" W	357.84	SHL TO WATER RESERVOIR (SPRING

OR CENSES STATE OF STATE OF WIRGHT OF THE PROPERTY OF TH

Q (20) 2000/ 0 2000 GRAPHIC SCALE FEET IN

I, THE UNDERSIGNED, HEREBY CERTIFY
THAT THIS PLAT IS CORRECT TO THE BEST OF
MY KNOWLEDGE AND BELIEF AND SHOWS ALL
THE INFORMATION REQUIRED BY LAW AND
REGULATIONS ISSUED AND PRESCRIBED BY THE
DEPARTMENT OF ENVIRONMENTAL PROTECTION.
P.S. 708 David L Jackson

CITY: JANE LEW

(+) DENOTES LOCATION OF WELL ON MINIMUM UNITED STATES TOPOGRAPHIC MAPS

OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034 DEGREE OF ACCURACY:

PROVEN

SOURCE

SURVEY OF GRADE GPS ELEVATION: (NAVD 88, US FT)

SWN Production Company, LLC Production Company™

OPERATOR'S WELL #:

GLADYS BRIGGS MSH 205H

API WELL #:

47 STATE

(14)

1

051 01873H COUNTY PERMIT

SHALLOW

DEEP WELL TYPE: OIL WASTE DISPOSAL PRODUCTION X GAS X LIQUID INJECTION WATERSHED: FISH CREEK OF UPPER OHIO RIVER 2 DISTRICT: LIBERTY COUNTY: MARSHALL SURFACE OWNER: JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS

ELEVATION: 1382.2' QUADRANGLE: CAMERON 7 1/2'

ACREAGE: 129.43 ACREAGE: 129.43

ESTIMATED DEPTH: 7,153' TVD 16,394' TMD

STORAGE

OIL & GAS ROYALTY OWNER: DAVID BONAR; HARRISON J. BRIGGS & GLADYS R. BRIGGS DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG

OTHER CHANGE (SPECIFY)

01/08/2016

TARGET FORMATION: MARCELLUS WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300

STATE: WV ZIP CODE: 26378 DESIGNATED AGENT: DEE SOUTHALL

ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD ABANDONED WELL PLUGGED & ABANDONED WELL CUT CONDUCTOR

LEASE BOUNDARY 500' DHP BUFFER -MAR 205>- MARCELLUS DHP
ABANDONED PATH

REVISIONS DATE: 10-30-2015 △ CORRECTED TICK MARK 12-15-2015 DRAWN BY: N. MANO DRAWING NO: WELL LOCATION PLAT

JACKSON SURVEYING INC.

P.O. Box 1460 677 W. Main St. Clarksburg, WV 26302 304-623-5851

FRACT		TAX PARCEL	ACRES
	BLAINE E. STERN JR. (S)/ DORIS J. LONG A/K/A DORIS JEANNINE LONG & ROBERT L. LONG; SARAL L. CLAYTON & RALPH L. CLAYTON, DEBRA L. FAIRCHILD A/K/A DEBRA LYNN FAIRCHILD, TERRY L. DOBBINS A/K/A TERRI LEE DOBBINS, MICHAEL T. BOGGS A/K/A MICHAEL TROY BOGGS, RUSSELL A. BOGGS A/K/A MICHAEL TROY BOGGS, RUSSELL A. BOGGS A/K/A ROBERT EARNEST BOGGS, HAROLD E. DOBBS A/K/A HAROLD ELWOOD DOBBS, RONALD W. KERNS, PATRICIA A CEOLL & WYLLE J. CEOLL, MARY L. LOGSDON, TERRY K. LOGSDON, CAROL J. DEBOLT & JACK E. DEBOLT, KAREN S. MCCONNELL, BILLE JO CUNNINDAM, J. RUSSELL LOGSDON, SHRIELY E. BURTON, WILLIAM N. LOGSDON, JANCE LEE EARNEST A/K/A JANGE L. EARNEST, DONNA FAYE EARNEST A/K/A JONNA F. EARNEST, DONNA FAYE EARNEST A/K/A JONNA F. EARNEST, DONNA FAYE EARNEST A/K/A JONNA F. EARNEST, DONNA FAYE EARNEST A/K/A ST. RICHTER; JUDY KAY HUFF, JULIA E. HUFLES T. RICHTER; JUDY KAY HUFF, JULIA E. HUFF, ROXIE GAL SHEPARD ESTATE A/K/A ROXIE G. SHEPARD ESTATE, BY LELA RICHTER WITMER A/K/A SHEPHERD, LLOYD RICHTER & DONNA E. RICHTER, SHEPHERD, LLOYD RICHTER & DONNA E. RICHTER, DALE W. RICHTER & DOLORES I. RICHTER, (R)	07-08-11	60.62
13	CHARLES R. CLARK & MARILEN I. WHIPKEY (S)/ LOVINA CLARK; DORA REYNOLDS, REVERDY REYNOLDS & GOLDA F. REYNOLDS, SARAH JANE KINGREE & BEN KINGREE II, ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON & GLADYS REYNOLDS. (8)	07-10-12	35.30
14	VINCENT E LEMASTERS (S)/ JAMES M. RINE & MARY B. RINE, FRANK HOPKINS & AUSTIA M. HOPKINS (R)	07-16-01	4.00
15	JACK BRIGGS (S)/ DAVID BONAR, HARRISON J. BRIGGS & GLADYS R. BRIGGS (R)	07-16-02.1	1.02
16	JOHN D. BRIGGS & PATTY K. BRIGGS (S)/ DAVID BONAR; HARRISON J. BRIGGS & GLADYS R. BRIGGS (R)	07-16-02.2	
17	PRESTON A. YEATER & HEATHER L. YEATER (S)/ JAMES M. RINE & MARY B. RINE, FRANK HOPKINS & AUSTIA M. HOPKINS(R)	07-16-29.2	4.92

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER (S)	TAX PARCEL	ACRES
A	BLAINE E. STERN JR. (S)	07-08-13	104.92
В	CONSOLIDATION COAL COMPANY (S)	07-07-03	12.00
C	TERRY L. STRAYER (S)	07-07-05	30.98
D	WAYNE E. GRAHAM (S)	07-07-05.1	5.82
E	PAMELA J. HOWARD (S)	07-10-15	15.51
F	ALVIN R. & JACKIE L. ANDERSON (S)	07-10-01.1	1.46
G	GARY RAY DOBBS ET AL (S)	07-10-18	131.97
Н	JAMES M. CLARK (S)	07-10-10	14,68
1	HAROLD E. & ANITA RUSH (S)	07-10-23	41.13
J	HAROLD E & ANITA RUSH (S)	07-10-23.1	1.33
К	WILLIAM A. & STEPHANIE F. YEATER (S)	07-16-29.3	41.50
L	THELMA YEATER (LIFE) (S)	07-16-29	40.41
M	GLADYS R. BRIGGS (S)	07-16-03	10.00
N	JACK J. BRIGGS (S)	07-16-05	37.88
0	MASON DIXON FARMS LLC (S)	07-16-06	69.72
P	MASON DIXON FARMS LLC (S)	07-17-19	22.80
Q	MCELROY COAL COMPANY (S)	07-10-08	50.77
R	DONALD G. BUZZARD ET UX (S)	07-10-07	164.13
S	ALVIN RICKEY ANDERSON ET AL (S)	07-10-06	63.19
T	PAUL & SUSAN ASTON (S)	07-09-26	B.50
U	CHARLES R. CLARK (S)	07-09-28.2	34.00
٧	EILEEN HINERMAN (S)	07-09-25	5.00
W	GARY L. DOBBS (S)	07-09-24	18.00
X	PAUL & SUSAN ASTON (S)	07-09-21	100.00
Y	JOHN A. DOBBS ET UX (S)	07-09-23	60.25
Z	JOHN A. DOBBS ET UX (S)	07-08-08	51.97
AA	JOHN A. DOBBS ET UX (S)	07-08-04	65.65
BB	DANNY R. & FRANCES V. KERNS ESTS. (S)	07-08-02	94.00
CC	BLAINE E. STERN JR. (S)	07-08-12	33.00

Office of Oil and Gas
NOV 0 3 2015
NOV Department of
Environmental Protection

REVISIONS:

COMPANY:

SWN

Production Company, LLC

OPERATOR'S

GLADYS BRIGGS MSH

WELL #:

205H

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:

MARSHALL COUNTY, WEST VIRGINIA

O1/08/2016

Production Company™

DATE: 10-30-2015

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:

ADJOINING OWNERS

WW-6A1 (5/13)

Operator's Well No.	Gladys Briggs MSH 6H
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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

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

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

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

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

Well Operator:	SWN Production Company, LLC	
By:	Brandi Welliam	
Its:	Sr.Landman	

Page 1 of 1

WW-6A1 (5/13)

Operator's Well No. Gladys Briggs MSH 205H

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)

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Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

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Well Operator:	SWN Production Company, LLC	
By:	Brand: William	
Its:	Sv. Landman	

Page 1 of 1

# SURFACE OWNER	LEASE #	LESSOR	LESSEE QUE 27 THE OWNER OF THE OWNER O	ROYALTY	BK/PG
1 / James Rodney Briggs	1-254788-000	David Bonar, single; Harrison J. Briggs and Gladys R. Briggs, his wife	The Manufacturers Light and Heat Company	12.50%	309/354
Roger Jacob Briggs		The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation 3 3		422/204
John Dean Briggs		Columbia Gas Transmision Corporation	Columbia Natural Resources, HC		642/281
		Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
		Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
Preston Yeater and 2 Heather L. Yeater (h/w, JT)	1-254725-000	James M. Rine and Mary B. Rine, his wife, and Frank Hopkins and Austia M. Hopkins, his wife	E.C. Beardsley	12.50%	137/429
		E.C. Beardsley	The Wheeling Natural Gas Company		150/49
		The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389
		The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		197/120
		Union Gasoline & Oil Corporation	The Preston Oil Company		2/136
		The Preston Oil Company	The Manufacturers Light and Heat Company		2/225
		The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
		Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
		Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
		Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582
3 √ Vincent E. Lemasters	1-236956-013	Pearl Lough, f/k/a Pearl Williams, a widow	Chesapeake Appalachia, LLC	12.50%	692/397
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-015	A. Jane Davis, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	12.50%	693/558
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-022	Ronald Young, a single man	Chesapeake Appalachia, LLC	17.00%	747/528
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-021	O.W. Young, a/k/a Orville W. Young, a single man	Chesapeake Appalachia, LLC	17.00%	732/406
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

# SURFACE OWNER	LEASE #	LESSOR	LESSEE TO THE TOTAL PROPERTY OF THE PROPERTY O	ROYALTY	BK/PG
	1-236956-007	Guy Buzzard, a single man	Chesapeake Appalachia Ltd. SWN Production Company D.C. Chesapeake Appalachia, P.C.O. SWN Production Company LLO.	12.50%	668/414
		Chesapeake Appalachia, LLC	SWN Production Company (CLC)		33/110
	1-236956-002	D. Vane Starkey, a widower	Chesapeake Appalachia, 400 2 3 9	12.50%	659/62
		Chesapeake Appalachia, LLC	SWN Production Company LLO		33/110
		Howard E. Williams, a married man dealing in his	6		
	1-236956-004	sole and separate property	Chesapeake Appalachia, LLC	12.50%	659/200
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		Ralph E. Williams, a married man dealing in his sole			
	1-236956-001	and separate property	Chesapeake Appalachia, LLC	12.50%	658/484
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-014	Harry E. Johnson, Sr., a widower	Chesapeake Appalachia, LLC	12.50%	693/562
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-006	James L. and Elsie J. Mercer, his wife	Chesapeake Appalachia, LLC	12.50%	659/382
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-005	Alma O. Pierce, a widow	Chesapeake Appalachia, LLC	12.50%	659/206
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-012	Elnor M. Horner, a/k/a Elnor Marie Horner, a widow	Chesapeake Appalachia, LLC	12.50%	690/260
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	1	33/110
		Sandra K. Dodd, a/k/a Sandy K. Dodd, a single			-
	1-236956-016	woman	Chesapeake Appalachia, LLC	12.50%	698/363
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		Donald L. Withers, a married man dealing in his sole			
	1-236956-019	and separate property	Chesapeake Appalachia, LLC	12.50%	695/203
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	<u></u>	33/110
		William G. Withers, III, a married man dealing in his			
	1-236956-017	sole and separate property	Chesapeake Appalachia, LLC	12.50%	698/366
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-236956-018	Karon Sue Vallee, a/k/a Karen Sue Vallee, a widow	Chesapeake Appalachia, LLC	12.50%	695/195

#	SURFACE OWNER	LEASE #	LESSOR	LESSEE O E	ROYALTY	BK/PG
			Chesapeake Appalachia, LLC	SWN Production Company, ACE TERRITORIES		33/110
		1-236956-003	Delmar W. Williams and Mary Lou Williams, his wife		12.50%	659/197
			Chesapeake Appalachia, LLC	SWN Production Company, LLOW 2 3		33/110
		1-236956-008	Nile L. Williams, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC SWN Production Company, LLO Chesapeake Appalachia, LLC	12.50%	666/172
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		1-236956-009	Larry C. Williams, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	12.50%	666/168
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		1-236956-020	Chestnut Holdings, Inc., a Florida corporation	Chesapeake Appalachia, LLC	17.00%	725/295
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
4	James M. Clark 🗸	1-254874-000	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.00%	360/341
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
5	Marilyn V. Clark	1-254874-000	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.00%	360/341
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

#	SURFACE OWNER	LEASE #	LESSOR	LESSEE O S O	ROYALTY	BK/PG
#1	SURFACE OWNER	LEASE #	Sarah Jane Kingree and Ben Kingree III, her husband, an undivided 1/2 interest, Alexander Foster Reynolds and Edith Reynolds, his wife, and Alexander Foster Reynolds, as committee for Arthur Reynolds, an incompetent person (an undivided 1/2	PECEIVED Office of Oil and 3 205	Wy Denta Environmenta	DIGITAL
			interest) and Gladys Reynolds, wife of Arthur			
6	Marilyn V. Clark	1-254800-000	Reynolds	The Manufacturers Light and Heat Company	12.50%	361/295
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
-			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
7	/ Marilyn V. Clark	1-254801-000	Sarah Jane Kingree and Ben Kingree III, her husband (an undivided 1/2 interest) Alexander Foster Reynolds and Edith Reynolds, his wife, and Alexander Foster Reynolds, as committee for Arthur Reynolds, an incompetent person (an undivided 1/2 interest) and Gladys Reynolds, wife of Arthur Reynolds	The Manufacturers Light and Heat Company	12.50%	361/300
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

#	SURFACE OWNER	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
_			Sarah Jane Kingree and Ben Kingree III, her husband (an undivided 1/2 interest) Alexander Foster Reynolds and Edith Reynolds, his wife, and Alexander Foster Reynolds, as committee for Arthur Reynolds, an incompetent person (an undivided 1/2 interest) and Gladys Reynolds, wife of Arthur			
8*	Charles R. Clark	1-254801-000	Reynolds	The Manufacturers Light and Heat Company	12.50%	361/300
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
	<i>}</i>		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
9 /	Charles R. Clark	1-254975-000	S.N. Cole & Ida Cole, his wife	Carnegie Natural Gas Company	12.50%	186/269
			Carnegie Natural Gas Company	The Manufacturers Light and Heat Company		3/93
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
			Hilda Pell Sinco and Michael Sinco, her husband, Alexander Foster Reynolds, Ada Reynolds, and Alexander Foster Reynolds as Committee for Arthur			
		1-254920-000	Reynolds, an incompetent person	The Manufacturers Light and Heat Company	12.50%	363/455
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
_			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

# SURFACE OWNER	LEASE #	LESSOR	LESSEE 6 E	6 ROYALTY	BK/PG
Wayne E. Graham Jr. and 10 Gwendolyn L. Graham (h/w, JT)	1-348294-001	William K. Walton, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	D 18.00%	758/120
		Chesapeake Appalachia, LLC	SWN Production Company, LLC 3.5 0	(a)	33/110
	1-348294-002	Marietta Stover, a widow, by her Attorney-In-Fact, Marvie S. Alexander	Chesapeake Appalachia, LLC SWN Production Company, LLC Chesapeake Appalachia, LLC	又多.00%	761/25
		Chesapeake Appalachia, LLC	SWN Production Company, LLC	田田	33/110
	1-348294-003	Margie M. Davenport, a widow	Chesapeake Appalachia, LLC	18.00%	779/546
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	Pending	William E. Graham Jr. aka Wayne E. Graham Jr. & Gwendolyn L. Graham, husband and wife	SWN Production Company, LLC	16.00%	Pending
11 Ronald Wm. Kasserman	1-254901-000	William Woodburn and Ann B. Woodburn, his wife	The Manufacturers Light and Heat Company	14.00%	381/385
		The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
		Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
		Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
		Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
12 Blaine E. Stern, Jr.	1-327681-013	Doris J. Long, a/k/a Doris Jeannine Long and Robert L. Long, her husband Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	17.00%	728/110 33/110
	1-327681-014	Sarah L. Clayton and Ralph L. Clayton, her husband	Chesapeake Appalachia, LLC	17.00%	728/500
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-010	Debra L. Fairchild, a/k/a Debra Lynn Fairchild, a single woman	Chesapeake Appalachia, LLC	17.00%	727/278
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1 227691 000	Terry L. Dobbins, a/k/a Terri Lee Dobbins, a married	Charanaska Annalashia II C	17.00%	726/149
	1-327681-009	woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	33/110
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

# SURFACE OWNER	LEASE#	LESSOR	LESSEE O SI PLO	ROYALTY	BK/PG
		Michael T. Boggs, a/k/a Michael Troy Boggs, a	Chesapeake Appalachia, LLC	17.00%	
		married man dealing in his sole and separate			
	1-327681-011	property	Chesapeake Appalachia, LLC	17.00%	728/120
		Chesapeake Appalachia, LLC	134414 i logidettoti company, ele pe 4	z <u> </u>	33/110
		Russell A. Boggs, a/k/a Russell Alan Boggs, a single	<u> </u>		
	1-327681-012	man		17.00%	728/115
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		Robert E. Boggs, a/k/a Robert Earnest Boggs, a			
	1-327681-007	single man	Chesapeake Appalachia, LLC	17.00%	726/37
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		Harold E. Dobbs, a/k/a Harold Elwood Dobbs, a			
		married man dealing in his sole and separate		47.000	705/470
	1-327681-015	property	Chesapeake Appalachia, LLC	17.00%	735/470
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-008	Ronald W. Kerns, a single man	Chesapeake Appalachia, LLC	17.00%	726/27
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-018	Patricia A. Cecil and Wylie J. Cecil, her husband	Chesapeake Appalachia, LLC	17.00%	758/156
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-016	Mary L. Logsdon, a widow	Chesapeake Appalachia, LLC	17.00%	758/138
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		Terry K. Logsdon, a married man dealing in his sole			
	1-327681-020	and separate property	Chesapeake Appalachia, LLC	17.00%	758/144
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-019	Carol J. Debolt and Jack E. Debolt, her husband	Chesapeake Appalachia, LLC	17.00%	758/150
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-021	Karen S. McConnell, a widow	Chesapeake Appalachia, LLC	17.00%	759/575
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
	1-327681-017	Billie Jo Cunningham, a single woman	Chesapeake Appalachia, LLC	17.00%	758/162
		Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

			Exhibit A) Gas	15 lent of Protection Protection	
#	SURFACE OWNER	LEASE #	LESSOR	LESSEE	밁	ROYALTX	BK/PG
		1-327681-005	J. Russell Logsdon, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	CEIV	717.08% LUO	724/191
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	THE CO	2 70	33/110
			Shirley E. Burton, a married woman dealing in her		Office	5 3	
		1-327681-004	sole and separate property	Chesapeake Appalachia, LLC		17.00% 山	724/186
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-006	William N. Logsdon, a widower	Chesapeake Appalachia, LLC		17.00%	724/483
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-003	Janice Lee Earnest, a/k/a Janice L. Earnest, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC		17.00%	724/181
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
			Donna Faye Earnest, a/k/a Donna F. Earnest, a married woman dealing in her sole and separate				
		1-327681-001	property	Chesapeake Appalachia, LLC		17.00%	724/171
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-002	Dorothy L. Harris, a single woman	Chesapeake Appalachia, LLC		17.00%	724/176
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-022	Cynthia L. Hippensteal and Richard T. Hippensteal, her husband	Chesapeake Appalachia, LLC		17.00%	771/545
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-029	Hill E. Chuss, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC		17.00%	774/206
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-023	Heidi J. Walton, a single woman	Chesapeake Appalachia, LLC		17.00%	771/539
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
-			Lela Richter Witmer, a/k/a Lela Witmer, a married				
		1-327681-025	woman dealing in her sole and separate property	Chesapeake Appalachia, LLC		17.00%	773/303
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110
		1-327681-028	Hurless T. Richter, a widower	Chesapeake Appalachia, LLC		17.00%	774/200
			Chesapeake Appalachia, LLC	SWN Production Company, LLC			33/110

			Exhibit A			6
#	SURFACE OWNER	LEASE #	LESSOR	LESSEE	ROYALTY	BK/Þ
		1-327681-032	Judy Kay Huff, a widow	Chesapeake Appalachia, LLC	17.00% ഗ്ല	787/ 29 80
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	<u>ڻ</u>	33/11 E
		1-327681-031	Julia E. Huff, a widow	Chesapeake Appalachia, LLC	17.00%	787/3280
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	7	5 33/110 E
			Roxie Gail Shepard Estate, a/k/a Roxie G. Shepard Estate, by Lela Richter Witmer, a/k/a Lela Witmer,		30.	752/309 33/110
		1-327681-026	acting as Executrix	Chesapeake Appalachia, LLC	17.00%	75/309
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	-	33/110
		1-327681-030	Patsy Ellen Shepherd, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	787/334
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		1-327681-027	Lloyd Richter and Donna E. Richter, his wife	Chesapeake Appalachia, LLC	17.00%	774/194
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
		1-327681-024	Dale W. Richter and Delores I. Richter, his wife	Chesapeake Appalachia, LLC	17.00%	772/120
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
13	Charles R. Clark and Marilyn V. Whipkey (JT)	1-254833-000	Lovina Clark, widow; Dora Reynolds, widow; Reverdy Reynolds and Golda F. Reynolds, his wife	The Manufacturers Light and Heat Company	12.50%	353/232
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC SWN Production Company, LLC	-	662/322 33/110
			Sarah Jane Kingree and Ben Kingree III, her husband (an undivided 1/2 interest) Alexander Foster Reynolds and Edith Reynolds, his wife, and Alexander Foster Reynolds, as committee for Arthur Reynolds, an incompetent person (an undivided 1/2 interest) and Gladys Reynolds, wife of Arthur			
		1-254801-000	Reynolds	The Manufacturers Light and Heat Company	12.50%	361/300
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204

#	SURFACE OWNER	LEASE #	LESSOR	LESSEE	ROYALTY	BK/P6
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC	- 7	642/28
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63 €
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC	Q.	662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
			James M. Rine and Mary B. Rine, his wife, and Frank			100
14	Vincent E. Lemasters	1-254725-000	Hopkins and Austia M. Hopkins, his wife	E.C. Beardsley	12.50%	107/429
			E.C. Beardsley	The Wheeling Natural Gas Company		150/49
			The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		148/389
-			The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		197/120
			Union Gasoline & Oil Corporation	The Preston Oil Company		2/136
			The Preston Oil Company	The Manufacturers Light and Heat Company		2/225
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582
			David Bonar, Single; Harrison J. Briggs and Gladys R.			
15	Jack Briggs	1-254788-000	Briggs, his wife	The Manufacturers Light and Heat Company	12.50%	309/354
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC	_	33/110
	John D. Briggs and		David Bonar, Single; Harrison J. Briggs and Gladys R.			
16	Patty K. Briggs (h/w, JT)	1-254788-000	Briggs, his wife	The Manufacturers Light and Heat Company	12.50%	309/354
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		422/204
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

#	SURFACE OWNER	LEASE #	LESSOR	LESSEE TO A PLANT OF THE PROPERTY OF THE PROPE	ROYALTY	BK/PG 등]
	Preston A. Yeater and		James M. Rine and Mary B. Rine, his wife, and Frank			45.40]
17	Heather L. Yeater (h/w, JT)	1-254725-000	Hopkins and Austia M. Hopkins, his wife	E.C. Beardsley	12.50%	137/429	á
			E.C. Beardsley	The Wheeling Natural Gas Company	,	150/490	3
			The Wheeling Natural Gas Company	The Manufacturers Light and Heat Company	P	2 148/389 5	ķ
			The Manufacturers Light and Heat Company	Union Gasoline & Oil Corporation		1979 20	٤
			Union Gasoline & Oil Corporation	The Preston Oil Company	, i	v ○ 2/1 3 6	4
			The Preston Oil Company	The Manufacturers Light and Heat Company		02/22	Ł
			The Manufacturers Light and Heat Company	Columbia Gas Transmision Corporation		E 432/204	F
			Columbia Gas Transmision Corporation	Columbia Natural Resources, LLC		673/281	1
			Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63	1
			Columbia Gas Transmision Corporation	Chesapeake Appalachia, LLC		662/322]
			Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582	1



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

October 20, 2015

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

RE: SWN's proposed Gladys Briggs MSH 205H in Marshall County, West Virginia, Drilling under Cameron Ridge Road and Fish Ridge 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 Cameron Ridge Road and Fish Ridge 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,

SWN Production Company, LLC

Bred Williams

PO Box 1300

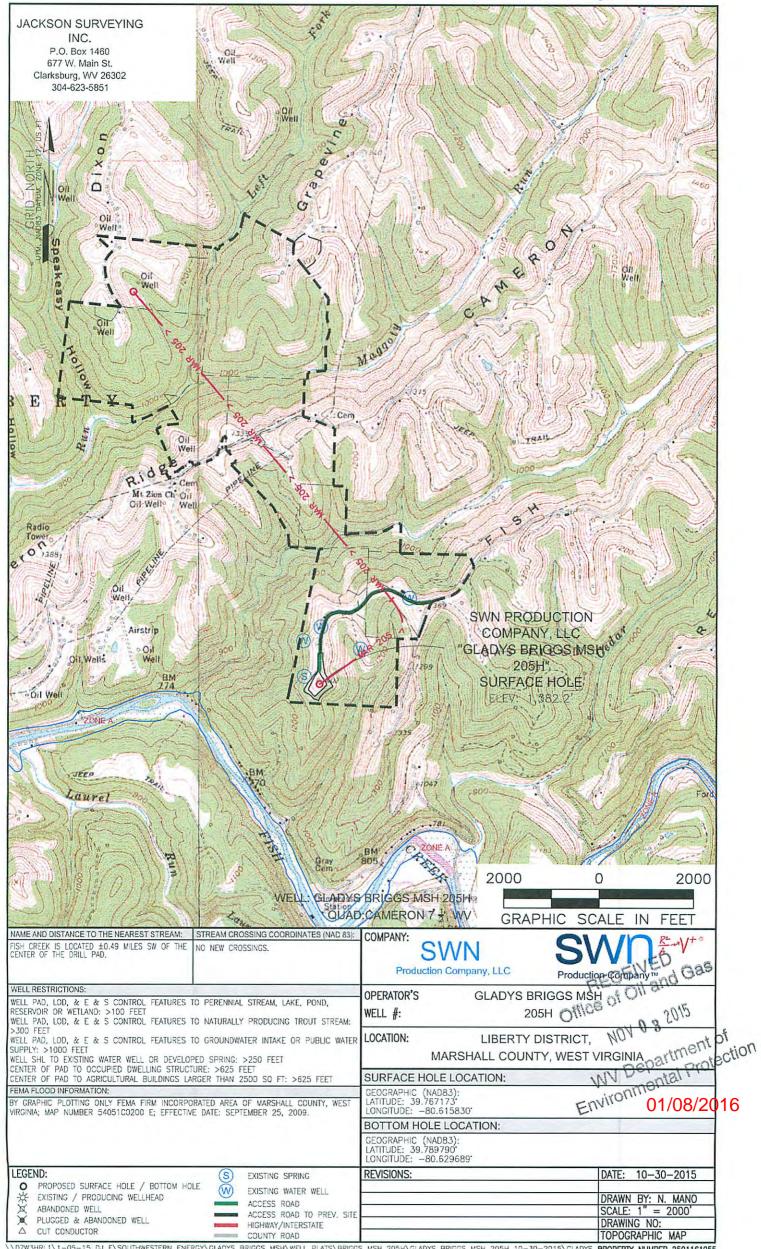
Jane Lew, WV 26378

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

Office of Oil and Gas

NOV 0 3 2015

NOV 0 001/08/20



Data of Nation Contification.

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

ADI No. 17 61

Date of House	e Cerunication:		AFI 140. 47		
		(Operator's	Well No. Glad	lys Briggs MSH 205H
		•	Well Pad N	lame: Gladys	Briggs MSH Pad
Notice has b	been given:				
	ne provisions in West Virginia Code §	22-6A, the Operator has provi	ded the req	uired parties	with the Notice Forms listed
	tract of land as follows:		•	•	
State:	wv	LITERA NIA IN 02	Easting:	532903.785	
County:	Marshall	UTM NAD 83	Northing:	4401986.789	
District:	Liberty	Public Road Acces	ss:	Fish Ridge Road	
Quadrangle:	Cameron	Generally used far	m name:	Gladys Briggs	
Watershed:	Fish Creek of Upper Ohio River 2				
prescribed by it has provide information re of giving the requirements Virginia Code	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and set the owners of the surface describequired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	hall contain the following inforced in subdivisions (1), (2) an ection sixteen of this article; (ii) arvey pursuant to subsection (a f this article were waived in vender proof of and certify to the	mation: (14 d (4), subs that the red), section to vriting by	A) A certification (b), sequirement was en of this art the surface of	ion from the operator that (inction ten of this article, the second satisfied as a resulticle six-a; or (iii) the notice wher; and Pursuant to Wes
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY	erator has attached proof to thid parties with the following:	s Notice C	ertification	OOG OFFICE USE ONLY
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NOT	TICE OF ENTRY FOR PLAT SURV	'EY or 🔳 NO PLAT SURVE'	Y WAS CO	ONDUCTED	□ RECEIVED
■ 3. NOT	TICE OF INTENT TO DRILL or	□ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PI WAS CONDUCTED or □ WRITTEN WAIVER BY	LAT SURV	'EY	RECEIVED/ NOT REQUIRED
■ 4. NOT	FICE OF PLANNED OPERATION	(PLEASE ATTACH)		• · · · · · - · ·	
4. NOI	HEE OF FLANNED OPERATION				□ RECEIVED
■ 5. PUB	ELIC NOTICE				RECEIVED
■ 6. NOT	TICE OF APPLICATION				RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach Africa 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.

01873

WW-6AC (1/12)

Certification of Notice is hereby given:

, have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 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

By: Dee Southall Its:

Regulatory Supervisor Telephone:

832-796-1614

Address: P.O. Box 12359

Spring, TX 77391-4954

Facsimile: 92816182780@fax.com

Dee_Southall@swn.com

MOTARY SEAFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022 Subscribed and sworn before me this 27 day of Verben 2015

Notary Public

My Commission Expires

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 depprivacyofficer@wy.gov.

> RECEIVED Office of Oil and Gas

> > NOV 0 3 2015

WV Department of **Environmental Protection**

01/08/2016

Attachment #1

Gladys Briggs MSH Pad - Water Purveyors w/in 1500'

Landowner

Address

James Briggs Jack Briggs 531 Briggs Lane Cameron, WV 26033 307 Briggs Lane, Cameron, WV 26033

RECEIVED
Office of Oil and Gas

NOV 0 3 2015

WV Department of Environmental Protection/2016

API NO. 47-59 - 01873
OPERATOR WELL NO. Giadys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH Pad

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

Noti	ice Time Requirement	: notice shall be prov	ided no later than the filing date of permit application.
Date	e of Notice:	Date Permit Applica	ntion Filed:
Noti	ice of:		
✓	PERMIT FOR ANY	☐ CERTIF	ICATE OF APPROVAL FOR THE
	WELL WORK	CONST	RUCTION OF AN IMPOUNDMENT OR PIT
Deli	very method pursuan	t to West Virginia C	ode § 22-6A-10(b)
	PERSONAL	REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
	SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
the soil and description of the soil and description operation of the soil and the soil and the soil and the soil and description operation operation of the soil and description operation of the soil and description operation operation operation of the soil and description operation op	surface of the tract on whind gas leasehold being of ribed in the erosion and ator or lessee, in the every coal seams; (4) The own work, if the surface traction of the surface traction water well, spring or ide water for consumptionsed well work activity ection (b) of this section rds of the sheriff require ision of this article to the R. § 35-8-5.7.a require	nich the well is or is proposed by the proposed by the proposed iment control plan in the tract of land on the record of the set is to be used for the pibed in section nine of water supply source loon by humans or dome is to take place. (c)(1) hold interests in the lad to be maintained pure contrary, notice to a less, in part, that the ope	this article, and the well plat to each of the following persons: (1) The owners of record of oposed to be located; (2) The owners of record of the surface tract or tracts overlying the used well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed obacement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to cated within one thousand five hundred feet of the center of the well pad which is used to estic animals; and (6) The operator of any natural gas storage field within which the lf more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. rator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
			&S Plan Notice ☑ Well Plat Notice is hereby provided to:
₪ SI	JRFACE OWNER(s)		COAL OWNER OR LESSEE
	e: Jack Briggs		Name: Consolidated Coal Company
Add	ress: 307 Briggs Lane		Address: 1000 Consol Energy Drive
Came	ron, WV 26033		Canonsburg, PA 15317
	e: Jame Rodney Briggs		☐ COAL OPERATOR
Addı	ress: 531 Briggs Lane		Name:
	ron, WV 26033		Address:
	JRFACE OWNER(s) (sturbance)
Nam	e:		☐ SURFACE OWNER OF WATER WELL
Addı	ress:		AND/OR WATER PURVEYOR(s)
			Name:
Nam	e:		Address:
Addı	ress:		<u> </u>
			■ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	RFACE OWNER(s) (Impoundments or Pits	
Nam			Address: 1700 MacCorkle Ave SE / PO Box 1273
Addr	ess:		
			*Please attach additional forms if necessary

WV Department of Environmental Prototion 2016

API NO. 47-61 - 01873
OPERATOR WELL NO. Gladys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH 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 thing date of persons approximation
Date of Notice: Date Permit Application Filed: _ Notice of:	
✓ PERMIT FOR ANYWELL WORK☐ CERTIFICATE OF ACONSTRUCTION O	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)
☐ PERSONAL ☐ REGISTERED ☐ MET	CHOD OF DELIVERY THAT REQUIRES A
	CEIPT OR SIGNATURE CONFIRMATION
registered mail or by any method of delivery that requires a receip 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 a lead to b	pit as required by this article shall deliver, by personal service or by of or signature confirmation, copies of the application, the erosion and define the well plat to each of the following persons: (1) The owners of record of ocated; (2) The owners of record of the surface tract or tracts overlying the proposed to be drilled is located for roads or other land disturbance as suant to subsection (c), section seven of this article; (3) The coal owner, proposed to be drilled is located [sic] is known to be underlain by one or tracts overlying the oil and gas leasehold being developed by the proposed istruction, enlargement, alteration, repair, removal or abandonment of any Any surface owner or water purveyor who is known to the applicant to be thousand five hundred feet of the center of the well pad which is used to find (6) The operator of any natural gas storage field within which the aree tenants in common or other co-owners of interests described in cant may serve the documents required upon the person described in the neight, article one, chapter eleven-a of this code. (2) Notwithstanding any not notice to a landowner, unless the lien holder is the landowner. W. Va. to provide the Well Site Safety Plan ("WSSP") to the surface owner and any not as provided in section 15 of this rule.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	
SURFACE OWNER(s) Name: Roger Jacob Briggs	☐ COAL OWNER OR LESSEE Name: Consolidated Coal Company
Address: 531 Briggs Lane	Address: 1000 Consol Energy Drive
Cameron, WV 26033	Canonsburg, PA 15317
Name: Preston & Heather L. Yeater	COAL OPERATOR
Address: 3663 Fish Ridge Rd	Name:
Cameron, WV 26033	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	
· tuno.	D SURFACE OWNER OF WATER WELL
Address:	SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s)
Address:	AND/OR WATER PURVEYOR(s) Name:
Address:	AND/OR WATER PURVEYOR(s) Name: Address:
Address:	AND/OR WATER PURVEYOR(s) Name: Address:
Address:Name:Address:SURFACE OWNER(s) (Impoundments or Pits) Name:	AND/OR WATER PURVEYOR(s) Name: Address: OPERATOR OF ANY NATURAL GASSEORAGE FIELD Name: Columbia Gas Transmission, LLC Att; John Shetton il and Gas Address: 1700 MacCorkle Ave SE/PO Box 1273
Address: Name: Address: SURFACE OWNER(s) (Impoundments or Pits)	AND/OR WATER PURVEYOR(s) Name: Address: OPERATOR OF ANY NATURAL GASSFORAGE FIELD Name: Columbia Gas Transmission, LLC Att; John Shelton 2 and Gas

WV Department of Environmental Protection 01/08/2016

API NO. 47-59 OPERATOR WELL NO. Gladys Briggs MSH 205H Well Pad Name: Gladys Briggs MSH Pad

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

Notice Time I	Requirement: notice shall be p	rovided no later than the filing date of permit application.
Date of Notic Notice of:	e: Date Permit App	lication Filed:
✓ PERMIT	FOR ANY CER	TIFICATE OF APPROVAL FOR THE
WELL V		STRUCTION OF AN IMPOUNDMENT OR PIT
WELL	VORK CON	STRUCTION OF AN IMPOUNDMENT ORTH
Delivery meth	od pursuant to West Virgini	a Code § 22-6A-10(b)
☐ PERSON	AL Z REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVIC		RECEIPT OR SIGNATURE CONFIRMATION
5201110		
sediment contrible surface of tool and gas leas described in the operator or less more coal seamwell work, if the impoundment of ave a water worovide water foroposed well subsection (b) or covision of the Code R. § 35-8	of plan required by section seven the tract on which the well is or it ehold being developed by the pre- element control preserved in the event the tract of land s; (4) The owners of record of the esurface tract is to be used for the or pit as described in section nine ell, spring or water supply source for consumption by humans or de- twork activity is to take place. (c) of this section hold interests in the heriff required to be maintained as article to the contrary, notice to -5.7.a requires, in part, that the	at requires a receipt or signature confirmation, copies of the application, the erosion and of this article, and the well plat to each of the following persons: (1) The owners of record of a proposed to be located; (2) The owners of record of the surface tract or tracts overlying the opposed well work, if the surface tract is to be used for roads or other land disturbance as lan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, on which the well proposed to be drilled is located [sic] is known to be underlain by one or as surface tract or tracts overlying the oil and gas leasehold being developed by the proposed are placement, construction, enlargement, alteration, repair, removal or abandonment of any of this article; (5) Any surface owner or water purveyor who is known to the applicant to be located within one thousand five hundred feet of the center of the well pad which is used to enestic animals; and (6) The operator of any natural gas storage field within which the (1) If more than three tenants in common or other co-owners of interests described in the pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any of a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any one and water testing as provided in section 15 of this rule.
☑ Application	Notice WSSP Notice	E&S Plan Notice ☑ Well Plat Notice is hereby provided to:
SURFACE (/	☑ COAL OWNER OR LESSEE /
Name: John D. 8		Name: Consolidated Coal Company
Address: 342 B		Address: 1000 Consol Energy Drive
Cameron, WV 2603		Canonsburg, PA 15317
Vame: Vincent E		COAL OPERATOR
Address: 103 B		Name:
Cameron, WV 2603	<u> </u>	Address:
	OWNER(s) (Road and/or Other	
Name:		☐ SURFACE OWNER OF WATER WELL
Address:		AND/OR WATER PURVEYOR(s)
		Name:
Name:		Address:
Address:		TECEN/ED
		☑ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
	OWNER(s) (Impoundments or	Pits) Name: Columbia Gas Transmission, LLC Afficient Sharlon IV all U
Name:		Address: 1700 MacCorkle Ave SE / PO Box 1273
Address:		Charleston, WV 25325 NOV 0.3 2015
		*Please attach additional forms if necessary
		way penartment of

WV Departmen Environmental Protection 01/08/2016

API NO. 47-59 - 01873
OPERATOR WELL NO. Gladys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH 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 th	ian the filing date of permit application.
Date of Notice: Date Permit Application Filed:	
Notice of:	
✓ PERMIT FOR ANY ☐ CERTIFICATE OF AP	PROVAL FOR THE
	AN IMPOUNDMENT OR PIT
Delivery method pursuant to West Virginia Code § 22-6A-1	0(b)
☐ PERSONAL ☑ REGISTERED ☐ METI	OD OF DELIVERY THAT REQUIRES A
SERVICE MAIL RECE	EIPT OR SIGNATURE CONFIRMATION
the surface of the tract on which the well is or is proposed to be looil and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted pursu operator or lessee, in the event the tract of land on which the well pursu operator or lessee, in the event the tract of land on which the well pursu operator or lessee, in the event the tract of land on which the well pursued is surface tract or the surface tract or the surface tract or the surface tract is to be used for the placement, consimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within one provide water for consumption by humans or domestic animals; an 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 applicance of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is not section.	ant may serve the documents required upon the person described in the eight, article one, chapter eleven-a of this code. (2) Notwithstanding any at notice to a landowner, unless the lien holder is the landowner. W. Va. provide the Well Site Safety Plan ("WSSP") to the surface owner and any
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	
☑ SURFACE OWNER(s) Name: Thelma Yeater	☐ COAL OWNER OR LESSEE Name: Consolidated Coal Company
Address: 82 Fish Ridge Rd	Address: 1000 Consol Energy Drive
Cameron, WV 26033	Canonsburg, PA 15317
Name:	☐ COAL OPERATOR
Address:	Name:
	Address:
SURFACE OWNER(s) (Road and/or Other Disturbance)	
Name:	☐ SURFACE OWNER OF WATER WELL
Address:	AND/OR WATER PURVEYOR(s) Name:
Name:	Name: Address: RECEIVED OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Address:	Office of Oil and Gas
	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s) (Impoundments or Pits)	Name: Columbia Gas Transmission, LLC Att: John Shelton Address: 1700 MacCorkle Ave SE / PO Box 1273 1273 2015
Name:Address:	
Address:	a cetment of
	*Please attach additional forms if necessary epartmental Protection
	Environmental

API NO. 47-51 - 01873
OPERATOR WELL NO. Gladys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH Pad

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending unsurface and of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead of 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 mittoeneed 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 be December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

API NO. 47-61 - 01873
OPERATOR WELL NO. Gladya Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH 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 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Office of Oil and Gas

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Such persons may request, at the time of submitting written comments, notice of the permit decision and alignments qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

API NO. 47-61 - 01873
OPERATOR WELL NO. Gladys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

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

Permit Denial or Condition

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

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

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

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

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Office of Oil and Gas

NOV 0 3 2015

WV Department of Environmental Protection

01/08/2016

API NO. 47-61 - 01873
OPERATOR WELL NO. Gladys Briggs MSH 205H
Well Pad Name: Gladys Briggs MSH Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 832-796-1000 Email: Dee_Southall@swn.com Address: P.O. Box 12359 Spring, TX 77391-4954

Facsimile: 92816182780@fax.com

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 21th day of Ottolon 2015

Buttony R Moody Notary Public

My Commission Expires 112722

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Office of Oil and Gas

NOV 0 3 2015

WV Department of Environmental Protection

Operator Well No. Gladys Briggs MSH 205H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Noti	Requirement: Notice shall be provided at ce: 10/22/2015 Date Per	least TEN (10) days prior to filing a mit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND DELIVI	CERTIFIED MAIL ERY RETURN RECEIPT REQ	MESTED	
Pursuant to V receipt reque drilling a hor of this subsection m	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided ay be waived in writing by the surface own ble, facsimile number and electronic mail ac	es prior to filing a permit application, er notice of its intent to enter upon the pursuant to subsection (a), section te to the surface owner: <i>Provided, how</i> her. The notice, if required, shall include	e surface owner's land for the purpose of n of this article satisfies the requirements ever, That the notice requirements of this add the name, address, telephone number,
	reby provided to the SURFACE OW		
Name: John D. Address: 342		Name:	
Cameron, WV 26		Address:	
State:	wner's land for the purpose of drilling a hor West Virginia	LITM NAD 83 Easting:	532,903.785
County:	Marshall	Nortning:	4,401,986.789
District:	Liberty		Fish Ridge Road
Quadrangle: Watershed:	Cameron Big Run	Generally used farm name:	
This Notice Pursuant to 'facsimile nur	Shall Include: West Virginia Code § 22-6A-16(b), this mber and electronic mail address of the orizontal drilling may be obtained from the 1 57 th Street, SE, Charleston, WV 25304 (3	perator and the operator's authorize Secretary, at the WV Department of	d representative. Additional information Environmental Protection headquarters,
	reby given by: r: SWN Production Company, LLC	Authorized Representative:	Destalla Cavillall
Address:	TOTAL CONTRACTOR OF THE PROPERTY OF	Address:	Danielle Southall
Address.	PO Box 1300, 179 Innovation Drive	Address.	PO Box 1300, 179 Innovation Drive
Telephone:	Jane Lew, WV 26378 304-884-1611	Telephone:	Jane Lew, WV 26378
Email:	The state of the s	Email:	304-884-1614
Facsimile:	Micah_Feather@swn.com	Facsimile:	Danielle_Southall@swn.com
Oil and Gas	Privacy Natice		RECEIVED

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.

WV Department of Environmental Protection

Operator Well No. Gladys Briggs MSH 205H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notic			east TEN (10) days prior to filing a nit Application Filed:	permit application.
Delivery met	hod pursuant to W	est Virginia Code § 22	-6A-16(b)	
☐ HAND	■ CER	RTIFIED MAIL		
DELIVE	ERY RET	TURN RECEIPT REQU	JESTED	
receipt reques drilling a hor of this subsection ma	sted or hand delivery izontal well: <i>Provide</i> tion as of the date the ay be waived in writi	, give the surface owne led, That notice given p e notice was provided t ing by the surface owne	or notice of its intent to enter upon the sursuant to subsection (a), section te to the surface owner: <i>Provided, how</i>	an operator shall, by certified mail return ne surface owner's land for the purpose of n of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number, r's authorized representative.
Notice is he	reby provided to t	the SURFACE OWI	NER(s):	
Name: Thelma			Name:	
Address: 82 Fi			Address:	
Cameron, WV 26	033			
	Vest Virginia Code §		zontal well on the tract of land as fo	well operator has an intent to enter upon llows: 532,903.785
County:	Marshall		- UTM NAD 83 Northing:	4,401,986.789
District:	Liberty		Public Road Access:	Fish Ridge Road
Quadrangle:	Cameron		Generally used farm name:	
Watershed:	Big Run		_"	
Pursuant to V facsimile num related to hor	nber and electronic rizontal drilling may	mail address of the op be obtained from the S	perator and the operator's authorize Secretary, at the WV Department o	ess, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, p.wv.gov/oil-and-gas/pages/default.aspx.
Notice is he	reby given by:			
	r: SWN Production Com	pany, LLC	Authorized Representative:	Danielle Southall
Address:	PO Box 1300, 179 Inn	ovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		_	Jane Lew, WV 26378
Telephone:	304-884-1611		Telephone:	304-884-1614
Email:	Micah_Feather@swn.	com	Email:	Danielle_Southall@swn.com
Facsimile:			Facsimile:	() () () () () () () () () ()
Oil and Gas	Privacy Notice:		_	RECEIVED

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.

WV Department of Environmental Protection

Operator Well No. Gladys Briggs MSH 2051

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.

	Requirement: Notice shall be provided a ce: 10/22/2015 Date Pe	nt least TEN (10) days prior to filing a rmit Application Filed:	permit application.
Delivery me	thod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVI		QUESTED	
eceipt reque drilling a hor of this subsection m and if availat	sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice giver tion as of the date the notice was provided.	ner notice of its intent to enter upon the pursuant to subsection (a), section to d to the surface owner: <i>Provided, howerer</i> . The notice, if required, shall included so the operator and the operator	an operator shall, by certified mail return the surface owner's land for the purpose of an of this article satisfies the requirements of this article satisfies the requirements of this ude the name, address, telephone number, r's authorized representative.
	& Heather L. Yeater		
Address: 366		Address:	
Cameron, WV 26	5033		
State: County: District: Quadrangle:	wner's land for the purpose of drilling a howest Virginia Marshall Liberty Cameron	UTM NAD 83 Easting: Northing:	532,903.785 4,401,986.789 Fish Ridge Road
Vatershed:	Big Run	_	
Pursuant to 'acsimile nur elated to hor	Shall Include: West Virginia Code § 22-6A-16(b), this nber and electronic mail address of the rizontal drilling may be obtained from the 57 th Street, SE, Charleston, WV 25304 (operator and the operator's authorize e Secretary, at the WV Department of	d representative. Additional information f Environmental Protection headquarters,
	reby given by: r: SWN Production Company, LLC	Authorized Representative:	Desigle Courtell
Address:	PO Box 1300, 179 Innovation Drive	Address:	Danielle Southall
taal ooo.	Jane Lew, WV 26378	/ iddiess.	PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378
elephone:	304-884-1611	Telephone:	304-884-1614
Email:	Micah Feather@swn.com	Email:	Danielle Southall@swn.com
acsimile:	maan_r odnior@smnodii	Facsimile:	Danielle_Coutrialit@SWIT.COTT
il and Car	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 French and Carlos 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. If you have any questions about our use or your personal information. DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Environmental Protection 01/08/2016

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 Date of Notice	Requirement: Notice shall be provide: 10/22/2015 Da		EN (10) days prior to filing a lication Filed:	
Delivery met	hod pursuant to West Virginia Co	ode § 22-6A-16	i (b)	
☐ HAND	CERTIFIED MAIL			
DELIVE			ח	
		-		
receipt reques drilling a hori of this subsect subsection ma	ted or hand delivery, give the surface zontal well: <i>Provided</i> , That notice tion as of the date the notice was pro-	ce owner notice given pursuant ovided to the store owner. The	e of its intent to enter upon t to subsection (a), section to urface owner: <i>Provided</i> , ho notice, if required, shall inc	n, an operator shall, by certified mail return the surface owner's land for the purpose of ten of this article satisfies the requirements owever, That the notice requirements of this clude the name, address, telephone number, tor's authorized representative.
	reby provided to the SURFAC	E OWNER(s):	
Name: Vincent E		. ,	Name:	
Address: 103 E			Address:	
Cameron, WV 260	033			
		g a horizontal		d well operator has an intent to enter upon follows: 532,903.785 4,401,986.789
District:	Liberty	D	ublic Road Access:	Fish Ridge Road
Quadrangle:	Cameron		Generally used farm name:	risii Riuge Road
Watershed:	Big Run		cherany used farm name.	
Pursuant to V facsimile num related to hori located at 601	ber and electronic mail address of zontal drilling may be obtained fro 57 th Street, SE, Charleston, WV 25	f the operator om the Secretar	and the operator's authorizery, at the WV Department of	dress, telephone number, and if available, zed representative. Additional information of Environmental Protection headquarters, lep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by: SWN Production Company, LLC		Analogical Dominion of the	
Address:			Authorized Representative	
Address.	PO Box 1300, 179 Innovation Drive		Address:	PO Box 1300, 179 Innovation Drive
Telephone:	Jane Lew, WV 26378		Telephone:	Jane Lew, WV 26378
Email:	304-884-1611		Email:	304-884-1614
Facsimile:	Micah_Feather@swn.com			Danielle_Southall@swn.com
racsillite.			Facsimile:	
needed to con	nply with statutory or regulatory	requirements.	including Freedom of In	RECEIVED GAS Explore number, as part of our regulatory es in the pormaniourse of business or as iformation Act requests. Our office will your personal information, please contact WV Departmental Protection vironmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Notic	Requirement: Notice shall be provided a ce: 10/22/2015 Date Per	rmit Application Filed:	
Delivery met	hod pursuant to West Virginia Code §	22-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		QUESTED	
eceipt reques drilling a hori of this subsectubsection ma	sted or hand delivery, give the surface ow izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided.	ner notice of its intent to enter upon a pursuant to subsection (a), section to d to the surface owner: <i>Provided, ho</i> ner. The notice, if required, shall income.	n, an operator shall, by certified mail return the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this clude the name, address, telephone number, or's authorized representative.
	reby provided to the SURFACE OV		
Name: Roger Ja Address: 531 E		Name:	
Cameron, WV 26		Address:	
County: District: Quadrangle:	Marshall Liberty Cameron	UTM NAD 83 Northing: Public Road Access:	4,401,986.789 Fish Ridge Road
District:	The state of the s		Fish Ridge Road
Vatershed:	Big Run	Generally used farm name:	
ursuant to Vacsimile num	nber and electronic mail address of the izontal drilling may be obtained from the	operator and the operator's authorize Secretary, at the WV Department of	ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
	reby given by: SWN Production Company, LLC	Authorized Representative	. 402.00
ddress:	PO Box 1300, 179 Innovation Drive	Authorized Representative Address:	
radioss.	Jane Lew, WV 26378	Address.	PO Box 1300, 179 Innovation Drive
	304-884-1611	Telephone:	Jane Lew, WV 26378 304-884-1614
elephone:		Email:	
	Micah_Feather@swn.com	Dillair.	Danielle_Southall@swn.com
elephone: Email: Pacsimile:	Privacy Notice: Oil and Gas processes your personal info	Facsimile:	

T 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 of as needed to comply with statutory or regulatory requirements, including Freedom of Information Autorequests. 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.

WV Department of Management of Information appropriately secure your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WV Department of Management of Information appropriate of Information appropriately secure your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Environmental Protection Environmental Protection

WW-6A4 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notic		provided at least TEN (10) days prior to filing a Date Permit Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia	a Code § 22-6A-16(b)	
☐ HAND	■ CERTIFIED MA	AIL	
DELIVE		EIPT REQUESTED	
receipt reques drilling a hori of this subsec subsection ma and if availab	sted or hand delivery, give the suizontal well: <i>Provided</i> , That not tion as of the date the notice was ay be waived in writing by the sule, facsimile number and electron	east ten days prior to filing a permit application urface owner notice of its intent to enter upon the tice given pursuant to subsection (a), section to subsection to the surface owner: <i>Provided, how urface</i> owner. The notice, if required, shall inclined mail address of the operator and the operator	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number
	reby provided to the SURFA		
Name: James R		Name:	
Address: 531 F Cameron, WV 26		Address:	
Notice is he Pursuant to W	est Virginia Code § 22-6A-16(b	b), notice is hereby given that the undersigned	well operator has an intent to enter upon
Pursuant to W the surface ov	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri	illing a horizontal well on the tract of land as for	ollows:
Pursuant to W	est Virginia Code § 22-6A-16(b	illing a horizontal well on the tract of land as for the land as for th	bllows: 532,903,785
Pursuant to W the surface ov State:	Vest Virginia Code § 22-6A-16(t vner's land for the purpose of dri West Virginia	illing a horizontal well on the tract of land as for	ollows:
Pursuant to W the surface ov State: County:	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall	illing a horizontal well on the tract of land as for the second of the tract of land as for the	bllows: 532,903,785 4,401,986.789
Pursuant to W the surface ov State: County: District:	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty	illing a horizontal well on the tract of land as for the tract of land	bllows: 532,903,785 4,401,986.789
Pursuant to Withe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Version of the surface	Vest Virginia Code § 22-6A-16(tovner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail addressizontal drilling may be obtained	illing a horizontal well on the tract of land as for the second of the tract of land as for the	bllows: 532,903,785 4,401,986,789 Fish Ridge Road ress, telephone number, and if available, and representative. Additional information of Environmental Protection headquarters
Pursuant to Wethe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vetacsimile nuncelated to horocated at 601 Notice is her	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(byner's land electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by:	UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: (6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of	bllows: 532,903,785 4,401,986,789 Fish Ridge Road ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters
Pursuant to Wethe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Versuant to Versuant to Notice at 601 Notice is here Well Operator	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16 aber and electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV	UTM NAD 83 Basting: Northing: Public Road Access: Generally used farm name: (6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of	bllows: 532,903,785 4,401,986.789 Fish Ridge Road ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wethe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vetacsimile nuncelated to horocated at 601 Notice is her	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(byner's land electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by:	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	bllows: 532,903,785 4,401,986,789 Fish Ridge Road ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
Pursuant to Wether surface of State: County: District: Quadrangle: Watershed: This Notice Pursuant to Vetacsimile nuncelated to hor ocated at 601 Notice is her Well Operator Address:	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(ber and electronic mail addressizontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: SWN Production Company, LLC	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.defauthorized Representative:	bllows: 532,903,785 4,401,986.789 Fish Ridge Road ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Danielle Southall
Pursuant to Wethe surface over State: County: District: Quadrangle: Watershed: This Notice Pursuant to Versuant to Versuant to Notice at 601 Notice is here Well Operator	Vest Virginia Code § 22-6A-16(byner's land for the purpose of dri West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(byner's land electronic mail address izontal drilling may be obtained 57th Street, SE, Charleston, WV reby given by: SWN Production Company, LLC PO Box 1300, 179 Innovation Drive	UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: 6(b), this notice shall include the name, address of the operator and the operator's authorized from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.defauthorized Representative:	bllows: 532,903,785 4,401,986.789 Fish Ridge Road ress, telephone number, and if available, ed representative. Additional information of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Danielle Southall PO Box 1300, 179 Innovation Drive

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.

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notice	Requirement: Notice shall be provided at lege: 10/22/2015 Date Perm	east TEN (10) days prior to filing a it Application Filed:	permit application.
Delivery met	hod pursuant to West Virginia Code § 22-	6A-16(b)	
☐ HAND	CERTIFIED MAIL		
DELIVE		ESTED	
receipt reques drilling a hor of this subsec subsection ma	V. Va. Code § 22-6A-16(b), at least ten days sted or hand delivery, give the surface owner izontal well: <i>Provided</i> , That notice given pution as of the date the notice was provided to be waived in writing by the surface owner le, facsimile number and electronic mail add	notice of its intent to enter upon the provided its intent to subsection (a), section to the surface owner: <i>Provided, hower.</i> The notice, if required, shall include its included in the surface owner.	the surface owner's land for the purpose of the nof this article satisfies the requirements wever, That the notice requirements of this ude the name, address, telephone number,
	reby provided to the SURFACE OWN		
Name: Jack Brig			
Address: 307 Cameron, WV 26		Address:	
State:	vner's land for the purpose of drilling a horiz West Virginia Marshall	Easting:	532,903.785
County:	Marshall	Northing:	4,401,986.789
District:	Liberty	Public Road Access:	Fish Ridge Road
Quadrangle:	Cameron	Generally used farm name:	
Watershed:	Big Run		
Pursuant to V facsimile num related to hor	Shall Include: West Virginia Code § 22-6A-16(b), this non the part and electronic mail address of the operizontal drilling may be obtained from the S 57th Street, SE, Charleston, WV 25304 (304)	erator and the operator's authorize ecretary, at the WV Department of	ed representative. Additional information
	reby given by:		
	SWN Production Company, LLC	Authorized Representative:	Danielle Southall
Address:	PO Box 1300, 179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive
	Jane Lew, WV 26378		Jane Lew, WV 26378
Telephone:	304-884-1611	Telephone:	304-884-1614
Email:	Micah_Feather@swn.com	Email:	Danielle_Southall@swn.com
Facsimile:		Facsimile:	

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Frenches of Information (Information Processes). 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.

WV Department of Environmental Protection 01/08/2016 WW-6A5 (1/12)

S1-01873 Operator Well No. Gladys Briggs MSH 205H

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

Notice Time Date of Noti	Requirement: notice shall be prov ce: 10/22/2015 Date Per		nter than the filing lication Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia C	ode § 22-	-6A-16(c)		
■ CERTI	FIED MAIL	Пв	IAND		
	RN RECEIPT REQUESTED		DELIVERY		
return receipt the planned required to be drilling of a damages to the damages to the drilling of notice. Notice is her (at the address Name: John D. Address: 342 Cameron, WV 26	trequested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A propose the surface affected by oil and gas on the surface affected by oil and gas on the surface affected by this section shall be good to the SURFACE Of the slisted in the records of the sheriff the Patty Briggs Briggs Lane 1033 104 105 106 107 108 109 109 109 109 109 109 109	e surface this subs ten of the d surface perations given to t WNER(s at the time	owner whose land section shall inclusis article to a surface and compens to the extent the dathe surface owner as so le of notice): Name: Address Address	I will be used for de: (1) A copy ace owner whose sation agreement amages are compatitude address list.	well operator has developed a planned act of land as follows:
County:	West Virginia Marshall		UTM NAD 8	Easting: Northing:	532,903.785 4,401,986.789
District:	Liberty		Public Road		Fish Ridge Road
Quadrangle:	Cameron		Generally use	ed farm name:	
Watershed:	Big Run		•		· · · · · · · · · · · · · · · · · · ·
Pursuant to V to be provide horizontal we surface affect information is	ed by W. Va. Code § 22-6A-10(b) ell; and (3) A proposed surface use ted by oil and gas operations to the related to horizontal drilling may be located at 601 57th Street, SE,	to a sur and comp e extent to e obtaine	face owner whose pensation agreeme he damages are co ed from the Secret	e land will be untraining and containing and compensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

NOV 0 3 2015

WV Department of Environmental Protection

01/08/2016

WW-6A5 (1/12)

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

Notice Time Date of Notice	Requirement: notice shall be provided ce: 10/22/2015 Date Permit	I no later than the filing Application Filed:	date of permit	application.
Delivery me	thod pursuant to West Virginia Code	§ 22-6A-16(c)		
	FIED MAIL [RN RECEIPT REQUESTED	HAND DELIVERY		
return receipt the planned of required to be drilling of a damages to the	t requested or hand delivery, give the su operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed su he surface affected by oil and gas operate	urface owner whose lands subsection shall incluing of this article to a sururface use and compentions to the extent the d	d will be used for ide: (1) A copy face owner whos sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. sted in the records of the sheriff at the time
	reby provided to the SURFACE OWN is listed in the records of the sheriff at the Yeater			
Address: 82 F				
Cameron, WV 26				
	Vest Virginia Code § 22-6A-16(c), notic the surface owner's land for the purpos West Virginia Marshall Liberty Cameron	se of drilling a horizont UTM NAD Public Road	al well on the tra Easting: Northing:	
Watershed:	Big Run			
Pursuant to V to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) to ell; and (3) A proposed surface use and ted by oil and gas operations to the expelated to horizontal drilling may be old located at 601 57th Street, SE, Ch	a surface owner whos compensation agreement tent the damages are contained from the Secret	e land will be uent containing arompensable und tary, at the WV	code section; (2) The information required used in conjunction with the drilling of a n offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting

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

NOV 0 3 2015

WV Department of Environmental Protection

WW-6A5 (1/12)

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

Delivery met	hod pursuant to West Virginia	Code § 22-6A-10	5(c)		
	nou purouant to most ingilia	_			
CERTI	FIED MAIL	☐ HAND			
RETUI	RN RECEIPT REQUESTED	DELIV	ERY		
return receipt the planned of required to be drilling of a damages to the d) The notice of notice.	requested or hand delivery, give reperation. The notice required by provided by subsection (b), section record well; and (3) A propose surface affected by oil and gas of	the surface owner this subsection on ten of this artisted surface use a superations to the egiven to the surface.	r whose land a shall includicte to a surfa and compens extent the da face owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
		r at the time of h			
Jame: Preston	R Heather L. Yeater	/	Name:		
Name: Preston		-/	Name:	:	
Address: 3663 Cameron, WV 26 Notice is her Pursuant to W peration on	Fish Ridge Rd. 1933 Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p		Address given that the	e undersigned v	well operator has developed a planned ct of land as follows:
Address: 3663 Cameron, WV 26 Notice is her Pursuant to W operation on State: County: District:	Fish Ridge Rd. 133 Peby given: Vest Virginia Code § 22-6A-16(c),	urpose of drilling	Address given that the ga horizonta JTM NAD 8	te undersigned volume to the transport of the transport o	well operator has developed a planned
Address: 3663 Cameron, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle:	Fish Ridge Rd. Peby given: Test Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Marshall	urpose of drilling	Address given that the ga horizonta JTM NAD 8	e undersigned volume transcription the transcription of the transcriptio	well operator has developed a planned ct of land as follows: 532,903.785 4,401,986.789
Address: 3663 Cameron, WV 26 Notice is her Pursuant to V	Fish Ridge Rd. Peby given: Test Virginia Code § 22-6A-16(c), the surface owner's land for the public Virginia Marshall Liberty	urpose of drilling	Address given that the ga horizonta JTM NAD 8	te undersigned volume to the transport of the transport o	well operator has developed a planned ct of land as follows: 532,903.785 4,401,986.789
Address: 3663 Cameron, WV 26 Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed: Pursuant to V o be provide norizontal we surface affect information r	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the public West Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(c) diby W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	this notice shale to a surface of and compensate the extent the data be obtained from	Address given that the gahorizonta JTM NAD 8 Public Road A Generally use I include: (1) owner whose ion agreementages are come the Secret	te undersigned value on the trace Northing: Access: ad farm name: A copy of this aland will be understand arry, at the WV	well operator has developed a planned ct of land as follows: 532,903,785 4,401,986,789 Fish Ridge Road code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection
Address: 3663 Cameron, WV 26 Notice is her Pursuant to W peration on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we purface affect information r headquarters, has/pages/def	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pubers Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface used by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	this notice shale to a surface of and compensate the extent the data be obtained from	Address given that the graph and a horizontal JTM NAD 8 Public Road A Generally use I include: (1) Downer whose ion agreement mages are common the Secret VV 25304 (1)	te undersigned value on the trace of farm name: Access: Ac copy of this can always and will be understand arry, at the WV (304-926-0450)	well operator has developed a planned ct of land as follows: 532,903,785 4,401,986,789 Fish Ridge Road code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-output languages/
Address: 3663 Cameron, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we ourface affect information r neadquarters,	eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the pubers Virginia Marshall Liberty Cameron Big Run Shall Include: Vest Virginia Code § 22-6A-16(c) d by W. Va. Code § 22-6A-10(l) ll; and (3) A proposed surface used by oil and gas operations to the elated to horizontal drilling may located at 601 57th Street, SE, ault.aspx.	this notice shale to a surface of and compensate the extent the data be obtained from	Address given that the gahorizonta JTM NAD 8 Public Road A Generally use I include: (1) owner whose ion agreementages are come the Secret	te undersigned value on the trace Northing: Access: ad farm name: A copy of this aland will be understand arry, at the WV	well operator has developed a planned ct of land as follows: 532,903.785 4,401,986.789 Fish Ridge Road code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-movation Drive

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 dennrivacy officer@wy.gov

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 0 3 2015

WV Department of Environmental Protection

SI-01873 Operator Well No. Godys Briggs MSH 205H

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

Date of Notic	Requirement: notice shall be procee: 10/22/2015 Date Po	ermit Ap	oplication Filed:	, date of perime	application.
Delivery met	hod pursuant to West Virginia	Code § 2	2-6A-16(c)		
■ CERTI	FIED MAIL		HAND		
	RN RECEIPT REQUESTED		DELIVERY		
eturn receipt he planned of required to be drilling of a l damages to th	requested or hand delivery, give a peration. The notice required by provided by subsection (b), section is provided well; and (3) A propose surface affected by oil and gas of	the surfa y this su on ten of sed surfa operation	ce owner whose lan bsection shall inclu this article to a sur- ce use and compen s to the extent the d	d will be used for de: (1) A copy face owner whose sation agreement amages are com	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information se land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter. Sted in the records of the sheriff at the time
Notice is here	by provided to the SURFACE	OWNER	R(s)		
	listed in the records of the sherif				
Name: Vincent E	. Lemasters	_ /	Name:		
Address: 103 E Cameron, WV 260 Notice is hero Pursuant to W	Lemasters riggs Lane 33 Pby given: est Virginia Code § 22-6A-16(c),		Name: Addres	s:	well operator has developed a planned
Address: 103 B Cameron, WV 260 Notice is hero Pursuant to W operation on State:	Lemasters riggs Lane 33 Seby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia		Name: Addres	he undersigned val well on the tra	well operator has developed a planned act of land as follows: 532,903.785
Address: 103 B Cameron, WV 260 Notice is here Pursuant to W operation on State: County:	Lemasters riggs Lane 33 Seby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Marshall		Name: Addres s hereby given that to f drilling a horizonta UTM NAD	he undersigned valued well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 532,903.785 4,401,986.789
Address: 103 B Cameron, WV 260 Notice is here Pursuant to W operation on State: County: District:	Lemasters riggs Lane 33 Pby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Marshall Liberty		Name: Addres shereby given that to f drilling a horizonta UTM NAD a	he undersigned val well on the tra Easting: Northing: Access:	well operator has developed a planned act of land as follows: 532,903.785
Address: 103 B Cameron, WV 260 Votice is here Pursuant to W peration on state: County: District: Quadrangle: Vatershed:	Lemasters riggs Lane 33 Sby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Marshall Liberty Cameron Big Run		Name: Addres shereby given that to f drilling a horizonta UTM NAD a	he undersigned valued well on the tra Easting: Northing:	well operator has developed a planned act of land as follows: 532,903.785 4,401,986.789
Address: 103 B Cameron, WV 260 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Vatershed: Pursuant to W o be provide orizontal we urface affects	Eby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Marshall Liberty Cameron Big Run hall Include: est Virginia Code § 22-6A-16(c), d by W. Va. Code § 22-6A-10(b), lt; and (3) A proposed surface use ed by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	, this not) to a s e and con ne extent be obtai	Name: Addres Shereby given that to far drilling a horizonta UTM NAD Some and Generally us a contract owner whose the damages are contended from the Secretaria and the secret	he undersigned of the last well on the traces and well on the traces and the last well as the last will be understand and the last well as the	well operator has developed a planned act of land as follows: 532,903.785 4,401,986.789
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Address: 103 B Cameron, WV 260 Notice is here Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we urface affect information re neadquarters, nas/pages/defi	chemasters riggs Lane 33 cby given: est Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Marshall Liberty Cameron Big Run chall Include: est Virginia Code § 22-6A-16(c), d by W. Va. Code § 22-6A-10(c), d by W. Va. Code § 22-6A-10(c), d by oil and gas operations to the period of	, this not) to a s e and con ne extent be obtai	Name: Addres Addres Shereby given that to f drilling a horizonta UTM NAD S Public Road Generally us ice shall include: (1 urface owner whos npensation agreeme the damages are coned from the Secreeston, WV 25304	he undersigned valued on the trace Easting: Northing: Access: ed farm name: Acopy of thise land will be understontaining arompensable undersy, at the WV (304-926-0450)	well operator has developed a planned act of land as follows: 532,903.785 4,401,986.789 Fish Ridge Road code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-nnovation Drive

NOV 0 3 2015

WV Department of
Environmental Protection

01/08/2016

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

Date of Noti	ce: 10/22/2015 Date Pe	ermit Application Filed:	it application.
Delivery me	thod pursuant to West Virginia (Code § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
ILLIUI	AVRECEII I REQUESTED	DELIVERT	
return receipt he planned of required to be drilling of a lamages to the d) The notice	requested or hand delivery, give to operation. The notice required by oprovided by subsection (b), section chorizontal well; and (3) A propose the surface affected by oil and gas of	the surface owner whose land will be used by this subsection shall include: (1) A copy on ten of this article to a surface owner whosed surface use and compensation agreement operations to the extent the damages are content to the surface owner at the address	lication, an operator shall, by certified mail for the drilling of a horizontal well notice of y of this code section; (2) The information ose land will be used in conjunction with the ent containing an offer of compensation for appensable under article six-b of this chapter, isted in the records of the sheriff at the time
	s listed in the records of the sheriff		
	acob Briggs	Name:	
valine.			
	Briggs Lane	/ Address:	
Address: 531 I Cameron, WV 26	eby given:		well operator has developed a planned
Address: 531 I Cameron, WV 26 Notice is her Pursuant to W operation on State:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia	notice is hereby given that the undersigned urpose of drilling a horizontal well on the t	ract of land as follows: 532,903.785
Address: 531 I Cameron, WV 26 Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Marshall	notice is hereby given that the undersigned urpose of drilling a horizontal well on the to Easting: UTM NAD 83 Northing	ract of land as follows: 532,903.785 4,401,986.789
Address: 531 I Cameron, WV 26 Notice is her Pursuant to W operation on State: County: District:	eby given: /est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Marshall Liberty	notice is hereby given that the undersigned urpose of drilling a horizontal well on the touch the season of UTM NAD 83 Northing Public Road Access:	ract of land as follows: 532,903.785
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Address: 5311 Cameron, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: Pursuant to W o be provide norizontal we ourface affect information r neadquarters,	eby given: //est Virginia Code § 22-6A-16(c), the surface owner's land for the pu West Virginia Marshall Liberty Cameron Big Run Shall Include: //est Virginia Code § 22-6A-16(c), ed by W. Va. Code § 22-6A-10(b ell; and (3) A proposed surface use well well and gas operations to the lelated to horizontal drilling may located at 601 57th Street, SE, fault.aspx.	notice is hereby given that the undersigned urpose of drilling a horizontal well on the transport of transport of the transport of transport of transport of transport of transport of the transport of	ract of land as follows: 532,903.785 4,401,986.789 Fish Ridge Road s 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 V Department of Environmental Protection (1) or by visiting www.dep.wv.gov/oil-and-lanovation Drive

Oil and Gas Privacy Notice:

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

NOV 0 3 2015

WV Department of Environmental Protection

01/08/2016

Operator Well No. Gladys Briggs MSH 205H

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

Date of Notic	e: 10/22/2015 Date Permit	Application File		—————	<u>аррисация.</u>
Delivery met	hod pursuant to West Virginia Code	§ 22-6A-16(c)			
	FIED MAIL EN RECEIPT REQUESTED	□ HAND DELIVERY	7		
return receipt the planned of required to be drilling of a hadamages to the (d) The notice of notice.	requested or hand delivery, give the superation. The notice required by this provided by subsection (b), section tenorizontal well; and (3) A proposed superations affected by oil and gas operations.	urface owner who subsection shall not this article to urface use and cotions to the extern to the surface	ose land all includ o a surfa compens on the da	will be used fo de: (1) A copy ace owner whos ation agreemen mages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the t 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 address	s listed in the records of the sheriff at the	ne time of notice	•		
Name: James Ro			Name:		
Address: 531 B Cameron, WV 260			Address	i:	
operation on State: County:	the surface owner's land for the purpos West Virginia	-	orizonta NAD 8	Facting	ct of land as follows: 532,903.785 4,401,986.789
District:	Liberty		c Road		Fish Ridge Road
Quadrangle:	Cameron	Gener	rally use	ed farm name:	
Watershed:	Big Run				
Pursuant to W to be provide horizontal we surface affect information re	d by W. Va. Code § 22-6A-10(b) to II; and (3) A proposed surface use and ed by oil and gas operations to the explated to horizontal drilling may be olocated at 601 57th Street, SE, Ch	a surface owner compensation a stent the damage btained from the	r whose agreements as are contact as Secret	e land will be un nt containing an ompensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a coffer 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-department
Well Operator	SWN Production Company, LLC	Ado	dress:	PO Box 1300, 179 lr	nnovation Drive
Telephone:	304-884-1614			Jane Lew, WV 2637	8
Email:	Daniella_Southall@swn.com	Fac	Facsimile:		
Oil and Gas I The Office of	Privacy Notice: Oil and Gas processes your personal in	nformation, such	ı as nam	e, address and t	elephone number, as part of our regulatory

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Office

O1/08/2016

Operator Well No. Gladys Briggs MSH 205H

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

	ce: 10/22/2015 Date Pern		
Delivery me	thod pursuant to West Virginia Co	de § 22-6A-16(c)	
CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
return receipt the planned of required to be drilling of a damages to the (d) The notice of notice.	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposed he surface affected by oil and gas operes required by this section shall be given by provided to the SURFACE OV is listed in the records of the sheriff a	e surface owner whose land will be use this subsection shall include: (1) A ten of this article to a surface owner a surface use and compensation agreerations to the extent the damages are iven to the surface owner at the address of the will be surface owner at the surface owner at the address owner at	application, an operator shall, by certified mainsed for the drilling of a horizontal well notice of copy of this code section; (2) The information whose land will be used in conjunction with the element containing an offer of compensation for elements compensable under article six-b of this chapter ress listed in the records of the sheriff at the time
Address: 307 Cameron, WV 26 Notice is her Pursuant to V operation on	Briggs Lane 033 eby given:	Address: otice is hereby given that the undersi pose of drilling a horizontal well on	
Address: 307 Cameron, WV 26 Notice is her Pursuant to V operation on State:	eby given: Vest Virginia Code § 22-6A-16(c), no the surface owner's land for the purp West Virginia	Address: otice is hereby given that the undersi pose of drilling a horizontal well on Easti	gned well operator has developed a planned the tract of land as follows: ng: 532,903.785
Address: 307 Cameron, WV 26 Notice is her Pursuant to V operation on State: County:	eby given: Vest Virginia Code § 22-6A-16(c), not the surface owner's land for the purposet Virginia Marshall	Address: otice is hereby given that the undersi pose of drilling a horizontal well on Easti UTM NAD 83 North	gned well operator has developed a planned the tract of land as follows: ng: 532,903.785 ning: 4,401,986.789
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The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act request.) Our office will appropriately secure your personal information. If you have any questions about our use or your personal information place contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

NOV 0 3 2015

WV Department of Environmental Protection 01/08/2016

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

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Office of Oil and Gas

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WV Department of Environmental Protection 8/2016

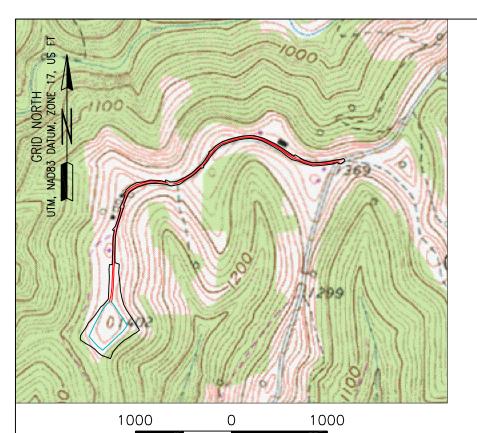
Supplier Name	Product Name	Product Use	Chemical Name	CAS Numbe
	EC6110A	Biocide	Ethanol	000064-17-5
NALCO ONESOURCE			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
1			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC		Proprietary Non Hazardous Salt	N/A-229
	WCS-031EC	Clay Stabilizer	Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
WEATHERFORD			Potassium Carbonate	000584-08-7
	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
	WXL-105L	Crosslinker	Water	007732-18-5
			Ethylene Glycol	000107-21-1
			Boric Acid	010043-35-3
			Ethanolamine	000141-43-5
10.00	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	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate ECEIV	7783-20-2 nd Gas
Supplier Name	Product Name	Product Use	Chemical Name 0 3	

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

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WV Department of Frivironmental Pro04/08/2016



GLADYS BRIGGS MSH PAD CONSTRUCTION AND RECLAMATION PLAN **AS-BUILT** LIBERTY DISTRICT, MARSHALL COUNTY, WV **AUGUST 2015**

TOTAL DISTURBED AREA: 8.4 ACRES ROAD DISTURBED AREA: 3.5 ACRES PAD DISTURBED AREA: 4.9 ACRES

1"=1000 **WVDEP OOG** ᇤ S **ACCEPTED AS-BUILT** 17, HANCOCK BROOKE) GRID **PROJECT** UTM, NAD83 LOCATION MONONGALIA MORGAN . BERKELEY MINERAL TAYLOR BARBOUR GRANT TUCKER LEWIS GILMER ALHOUN UPSHUR/ RANDOLPH PENDLETON WEBSTER CLAY CABELL NICHOLAS POCAHONTAS FAYETTE GREENBRIER

RALEIGH

SUMMERS .

MERCER

MONROE

COORDINATES: SITE ENTRANCE (NAD83) LAT: 39.771899

LONG: 80.607187

AT BRIGGS PAD (NAD83) LAT: 39.767864 LONG: 80.615884

CENTER OF PAD (NAD83) LAT: 39.767143 LONG: 80.615970

GATHERING AREA (NAD83) LAT: 39.771728 LONG: 80.608802

EXISTING WELL: BRIGGS MSH 8H (NAD83)

LAT: 39.767080 LONG: 80.615852

PROPOSED WELLS: BRIGGS MSH 6H (NAD83) LAT: 39.767053

LONG: 80.615888

BRIGGS MSH 10H (NAD83) LAT: 39.767107

LONG: 80.615817

BRIGGS MSH 205H (NAD83) LAT: 39.767173

LONG: 80.615830 BRIGGS MSH 210H

(NAD83) LAT: 39.767133 LONG: 80.615781

SHEET INDEX

TS1. TITLE SHEET

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

AS3.1 ASBUILT OVERVIEW

AS3.2 ASBUILT

AS3.3 ASBUILT

AS3.4 ASBUILT AS3.5 ASBUILT

AS3.6 ASBUILT

AS3.7 ASBUILT

ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE

MRD5.1 RECLAMATION PLAN OVERVIEW

MRD5.2 RECLAMATION PLAN

MRD5.3 RECLAMATION PLAN

MRD5.4 RECLAMATION PLAN

MRD5.5 RECLAMATION PLAN MRD5.6 RECLAMATION PLAN

MRD5.7 RECLAMATION PLAN MRD6.3 RECLAMATION DETAILS

MRD6.4 RECLAMATION DETAILS

REVISION

DATE

01-07-2016

CHANGES ON SHEETS 10-16-2015

AS3.7, ASR4.1, & MRD5.7

CHANGES ON SHEETS 11-23-2015

AS3.7 & MRD5.7.

ALSO ADDED SHEET MRD6.4

CELLAR DETAIL AS3.7. MRD5.7. & MRD6.4







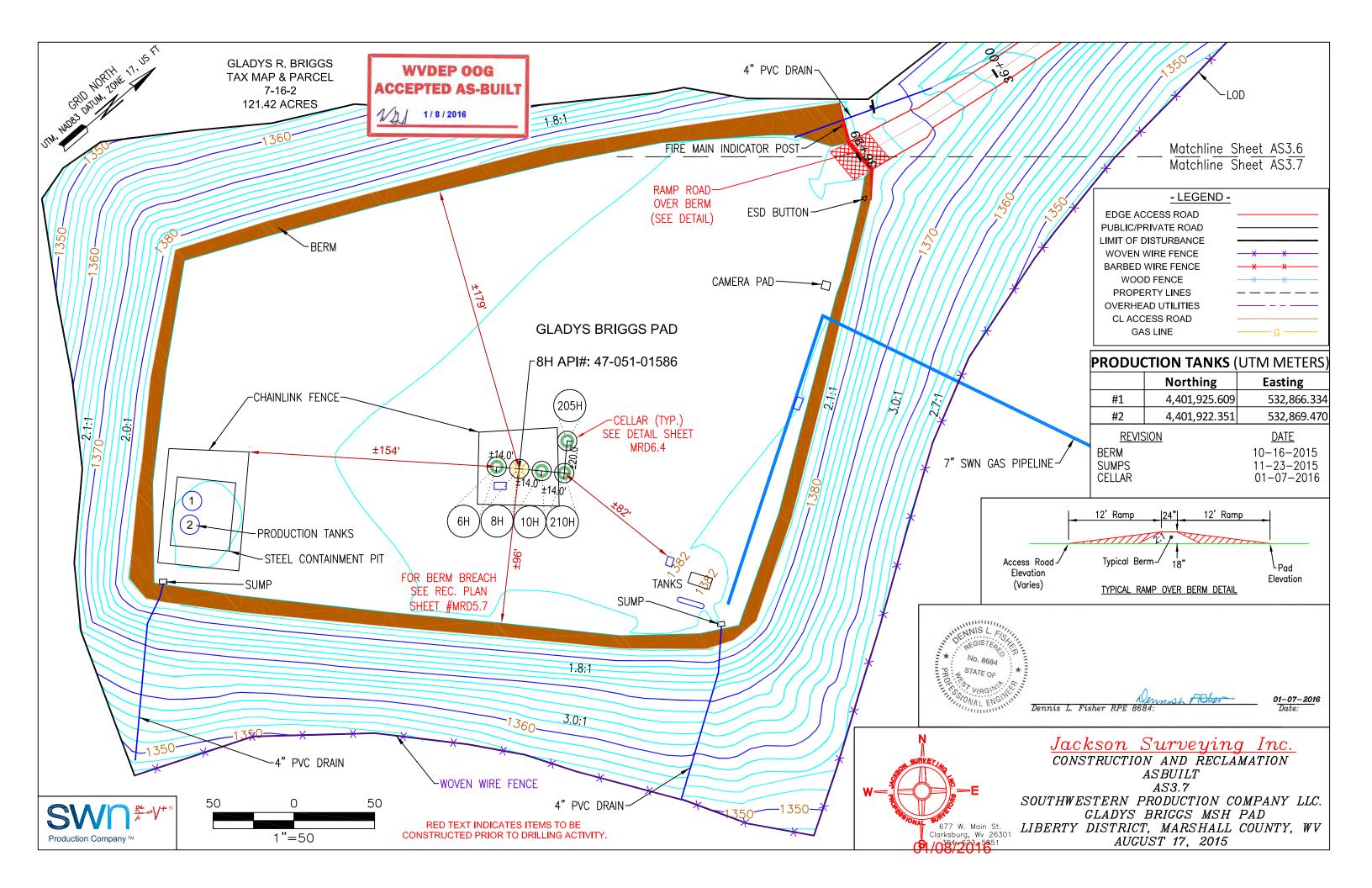
01-07-2016

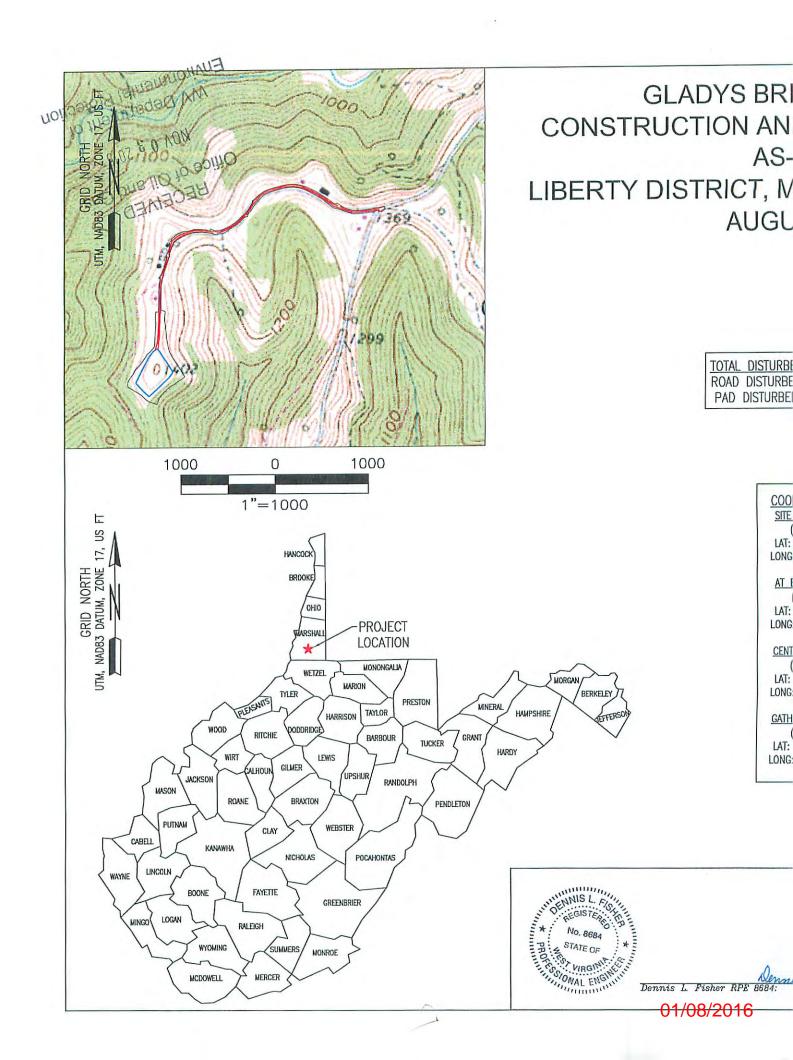
Jackson Surveying Inc.

TITLE SHEET

TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC. GLADYS BRIGGS MSH PAD LIBERTY DISTRICT, MARSHALL COUNTY, WV AUGUST 17, 2015





GGS MSH PAD RECLAMATION PLAN BUILT ARSHALL COUNTY, WV ST 2015

AREA: 8.4 ACRES AREA: 3.5 ACRES AREA: 4.9 ACRES

NATES: NTRANCE D83) 0.771899 0.607187

GGS PAD D83) 0.767864 0.615884

OF PAD D83) .767143 0.615970

NG AREA 083) .771728 0.608802 EXISTING WELL: BRIGGS MSH 8H (NAD83)

LAT: 39.767080 LONG: 80.615852

PROPOSED WELLS: BRIGGS MSH 6H (NAD83)

LAT: 39.767053 LONG: 80.615888

BRIGGS MSH 10H (NAD83)

LAT: 39.767107 LONG: 80.615817

BRIGGS MSH 205H

(NAD83) LAT: 39.767173 LONG: 80.615830

BRIGGS MSH 210H

(NAD83) LAT: 39.767133 LONG: 80.615781 SHEET INDEX

TS1. TITLE SHEET

EP2.1 EVACUATION ROUTE/ PREVAILING WIND

EP2.2 EVACUATION ROUTE/ PREVAILING WIND

AS3.1 ASBUILT OVERVIEW

AS3.2 ASBUILT

AS3.3 ASBUILT

AS3.4 ASBUILT

AS3.5 ASBUILT

AS3.6 ASBUILT

AS3.7 ASBUILT

ASR4.1 CONSTRUCTION AND RECLAMATION ACCESS ROAD PROFILE

MRD5.1 RECLAMATION PLAN OVERVIEW

MRD5.2 RECLAMATION PLAN

MRD5.3 RECLAMATION PLAN

MRD5.4 RECLAMATION PLAN

MRD5.5 RECLAMATION PLAN

MRD5.6 RECLAMATION PLAN

MRD5.7 RECLAMATION PLAN

MRD6.3 RECLAMATION DETAILS

REVISION

DATE

CHANGES ON SHEETS AS3.7, ASR4.1, & MRD5.7 10-16-2015

Jul 28/15





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TITLE SHEET

TS.1

SOUTHWESTERN PRODUCTION COMPANY LLC. GLADYS BRIGGS MSH PAD LIBERTY DISTRICT, MARSHALL COUNTY, WV AUGUST 17, 2015

10-16-2015 Date: