



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

September 20, 2016
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for GLADYS BRIGGS MSH 205H
47-051-01873-00-00

Lateral Modifications

SWN PRODUCTION COMPANY, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: GLADYS BRIGGS MSH 205H
Farm Name: JAMES R., ROGER J. & JOHN D. BRIGGS
U.S. WELL NUMBER: 47-051-01873-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: September 20, 2016

Promoting a healthy environment.

09/23/2016

WW-6B
(10/14)

API NO. 47-~~51~~ - 47-051-01873 MOD
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 Operator: SWN Production Co., LLC 494512924 Marshall 4-Liberty 278-Cameron
API → 47-051-01873 Operator ID County District Quadrangle

2) Operator's Well Number: Gladys Briggs MSH 205H Well Pad Name: Gladys Briggs MSH Pad

3) Farm Name/Surface Owner: Gladys R. Briggs Public Road Access: Fish Ridge Road

4) Elevation, current ground: 1382' Elevation, proposed post-construction: 1382'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other _____

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No yes

JN 8/30/16

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target Formation- Marcellus, Target Top TVD- 7138', Target Base TVD-7173' , Anticipated Thickness- 35', Associated Pressure- 4250

8) Proposed Total Vertical Depth: 7,153'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 16,394'

11) Proposed Horizontal Leg Length: 8451'

12) Approximate Fresh Water Strata Depths: 732'

13) Method to Determine Fresh Water Depths: from log analysis and nearby water wells

14) Approximate Saltwater Depths: 1741'

15) Approximate Coal Seam Depths: 1099'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

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(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

WW-6B
(10/14)

API NO. 47-51 - 201873 Mon
 OPERATOR WELL NO. Gladys Briggs MSH 205H
 Well Pad Name: Gladys Briggs MSH Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	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	HCP-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	16,394'	16,394'	Lead 1075sx 2018148 su/100' burst to 100'
Tubing	2 3/8"	New	P-110	4.7#	Approx. 7,155'	Approx. 7,155'	
Liners							

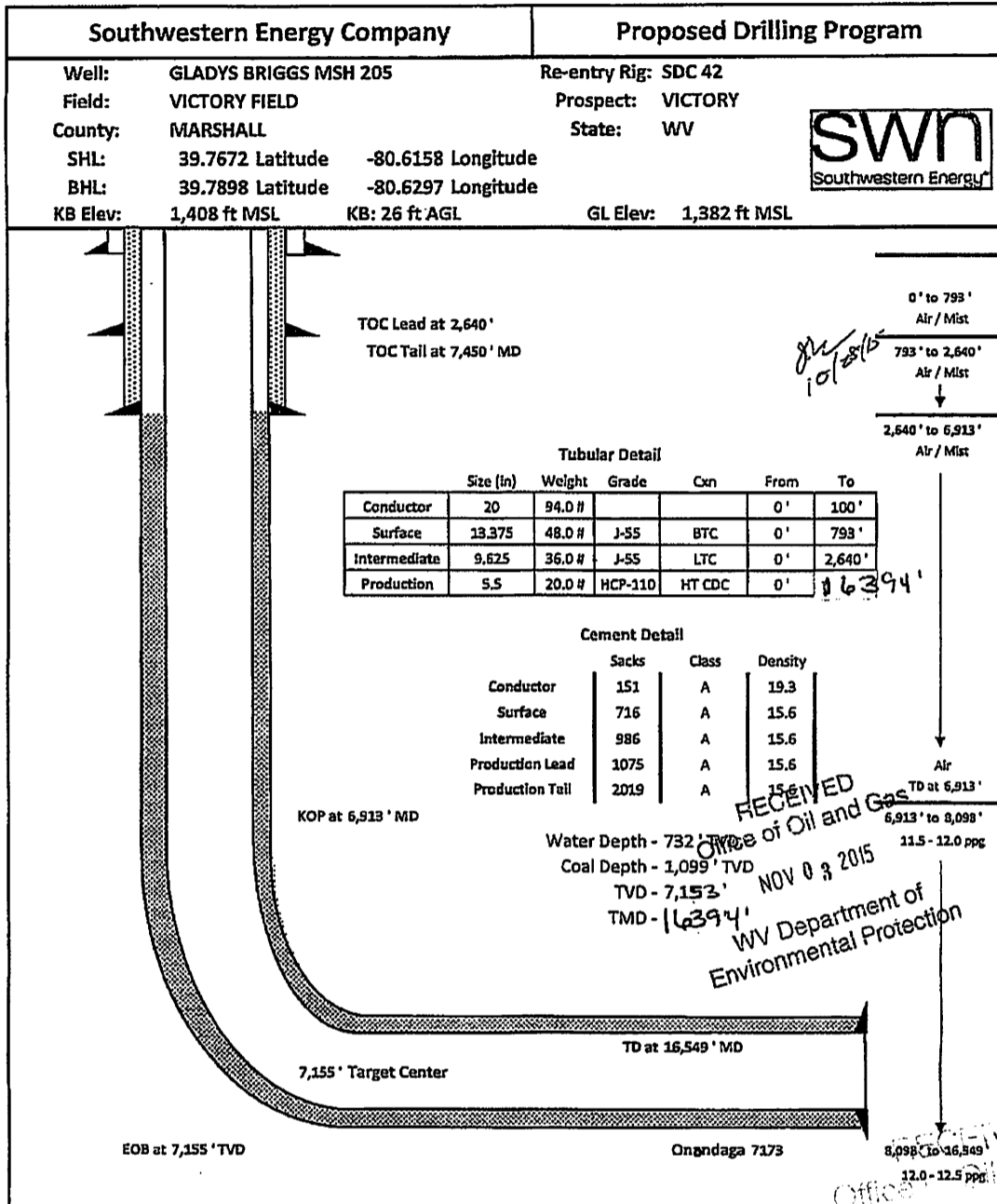
JN 8/30/16

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	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	0.020	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	0.020	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	0.020	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

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

SI 101823 MOD



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09/23/2016

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)**

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
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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: *Brenda Williams*

Its: *Staff Landman*

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Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	07-16-02	James Rodney Briggs	121.4290	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 Transmission Corporation		422/204
		John Dean Briggs			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
2	07-16-29.4	Preston Yeater and Heather L. Yeater (h/w, JT)	17.9100	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 Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582
3	07-16-29.2	Preston A. Yeater and Heather L. Yeater (h/w, JT)	4.9160	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 Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582

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Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
4	07-10-24	Vincent E. Lemasters	44.0750	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
				1-236956-007	Guy Buzzard, a single man	Chesapeake Appalachia, LLC	12.50%	668/414
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-002	D. Vane Starkey, a widower	Chesapeake Appalachia, LLC	12.50%	659/62
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-004	Howard E. Williams, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	12.50%	659/200
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-001	Ralph E. Williams, a married man dealing in his sole 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		33/110
				1-236956-016	Sandra K. Dodd, a/k/a Sandy K. Dodd, a single woman	Chesapeake Appalachia, LLC	12.50%	698/363
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-019	Donald L. Withers, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	12.50%	695/203
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

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#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
				1-236956-017	William G. Withers, III, a married man dealing in his 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
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-003	Delmar W. Williams and Mary Lou Williams, his wife	Chesapeake Appalachia, LLC	12.50%	659/197
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-236956-008	Nile L. Williams, a married man dealing in his sole and separate property	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
5	07-10-09	James M. Clark	15.0000	1-254874-000	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.00%	360/341
					The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
6	07-10-11	Marilyn V. Clark	25.0000	1-254874-000	Olive Prendergast, widow	The Manufacturers Light and Heat Company	14.00%	360/341
					The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
7	07-10-12	Charles R. Clark and Marilyn V. Whipkey (JT)	35.3000	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 Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

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#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
				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 Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
8	07-10-05	Marilyn V. Clark	34.0217	1-254800-000	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%	361/295
					The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
9	07-10-04.1	Marilyn V. Clark	1.1160	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 Transmission Corporation		422/204
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
					Columbia Natural Resources, LLC	Chesapeake Appalachia, LLC		650/63
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

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#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
10	07-10-04	Charles R. Clark	46.7223	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
11	07-10-01	Charles R. Clark	48.7800	1-254920-000	Hilda Pell Sinco and Michael Sinco, her husband, Alexander Foster Reynolds, Ada Reynolds, and Alexander Foster Reynolds as Committee for Arthur 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
12	07-07-04	Wayne E. Graham Jr. and Gwendolyn L. Graham (h/w, JT)	156.00	1-348294-001	William K. Walton, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	18.00%	758/120
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-348294-002	Marietta Stover, a widow, by her Attorney-In-Fact, Marvie S. Alexander	Chesapeake Appalachia, LLC	18.00%	761/25
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		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%	894/623
13	07-08-09	Ronald Wm Kasserman	130.1500	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

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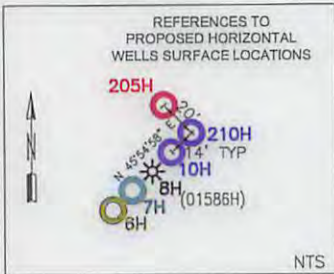
4705101873

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

SURFACE HOLE LOCATION (SHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,401,986.792
 EASTING: 532,903.775

"LANDING POINT" LOCATION (LPL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,404,526.429
 EASTING: 533,369.435

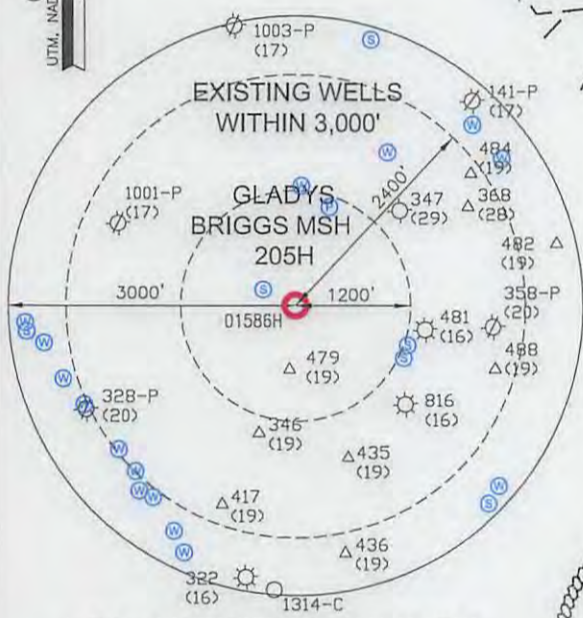
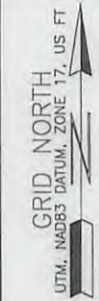
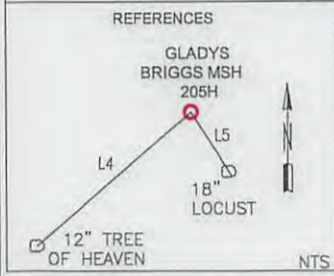
BOTTOM HOLE LOCATION (BHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,404,526.429
 EASTING: 531,808.252



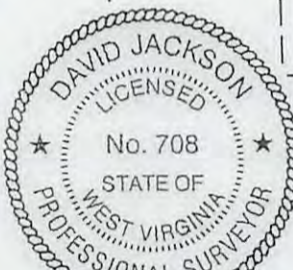
LINE	BEARING	DISTANCE	DESCRIPTION
L1	S 51°44'17" W	784.35'	SHL TO CNR FP
L2	N 26°00'25" E	1,661.53'	SHL TO ROOFBOLT
L3	N 40°47'29" E	2,338.49'	SHL TO LPL
L4	S 48°56'52" W	535.02'	SHL TO 12" TREE OF HEAVEN
L5	S 32°27'01" E	200.58'	SHL TO 18" LOCUST
L6	N 64°49'05" W	357.80'	SHL TO WATER RESERVOIR (SPRING)

TRACT	SURFACE OWNER (S)	TAX PARCEL	ACRES
1	JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS, JOHN DEAN BRIGGS (S)	7-16-02	121.43
2	PRESTON YEATER & HEATHER L. YEATER (S)	07-16-29.4	17.91
3	PRESTON A. YEATER & HEATHER L. YEATER (S)	07-16-29.2	4.92
4	VINCENT E. LEMASTERS (S)	07-10-24	44.08
5	JAMES M. CLARK (S)	07-10-09	15.00
6	MARILYN V. CLARK (S)	07-10-11	25.00
7	CHARLES R. CLARK & MARILYN V. WHIPKEY (S)	07-10-12	35.30
8	MARILYN V. CLARK (S)	07-10-05	34.02
9	MARILYN V. CLARK (S)	07-10-04.1	1.12
10	CHARLES R. CLARK (S)	07-10-04	46.72
11	CHARLES R. CLARK (S)	07-10-01	48.78
12	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM (S)	07-07-04	156.00
13	RONALD WM. KASSERMAN (S)	07-08-09	130.15

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.



SWN PRODUCTION COMPANY, LLC
"GLADYS BRIGGS MSH 205H"
SURFACE HOLE
 ELEV: 1,382.2'



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*

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>GLADYS BRIGGS MSH</p> <p>OPERATOR'S WELL #: 205H</p> <p>API WELL #: 47 STATE COUNTY PERMIT 051-018734 MOD 101A</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: FISH CREEK OF UPPER OHIO RIVER 2 ELEVATION: 1382.2'</p> <p>DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: CAMERON 7 1/2'</p> <p>SURFACE OWNER: JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS ACREAGE: 129.43</p> <p>OIL & GAS ROYALTY OWNER: DAVID BONAR; HARRISON J. BRIGGS & GLADYS R. BRIGGS ACREAGE: 129.43</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,153' TVD 16,394' TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- 500' DHP BUFFER --- MARCELLUS DHP --- ABANDONED PATH 	<p>REVISIONS:</p> <ul style="list-style-type: none"> △ CORRECTED TICK MARK 12-15-2015 △ SHIFT BOTTOM HOLE & LANDING POINT 01-21-2016 △ SHIFTED LANDING POINT 08-09-2016 △ CORRECTED OWNERSHIP & DHP 08-17-2016 △ ADDED H, I, & J 	<p>DATE: 10-30-2015</p> <p>DRAWN BY: N. MANO</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO:</p> <p>WELL LOCATION PLAT</p>

JACKSON SURVEYING
INC.



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

51-01873 H6A
MOD

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER (S)	TAX PARCEL	ACRES
A	MASON DIXON FARMS LLC	07-17-19	22.80
B	JOHN D. BRIGGS & PATTY K. BRIGGS	07-16-02.2	1.03
C	VINCENT E. LEMASTERS	07-16-01	4.00
D	JACK BRIGGS	07-16-02.1	1.02
E	MCELROY COAL COMPANY	07-10-08	50.77
F	DONALD G. BUZZARD ET UX	07-10-07	164.13
G	ALVIN RICKEY ANDERSON ET AL	07-10-06	63.19
H	PAUL F. STERN	07-10-03	1.00
I	WINIFRED M. STERN	07-10-02	1.40
J	WINIFRED M. STERN	07-10-06.1	0.28
K	PAUL & SUSAN ASTON	07-09-26	8.50
L	ALVIN R. & JACKIE L. ANDERSON	07-10-01.1	1.46
M	CHARLES R. CLARK	07-09-28.2	34.00
N	EILEEN HINERMAN	07-09-25	5.00
O	GARY L. DOBBS	07-09-24	18.00
P	PAUL & SUSAN ASTON	07-09-21	100.00
Q	JOHN A. DOBBS ET UX	07-09-23	60.25
R	JOHN A. DOBBS ET UX	07-08-08	51.97
S	JOHN A. DOBBS ET UX	07-08-04	65.65
T	DANNY R. & FRANCES V. KERNS ESTS.	07-08-02	94.00
U	BLAINE E. STERN JR.	07-08-12	33.00
V	BLAINE E. STERN JR.	07-08-11	60.62
W	CONSOLIDATION COAL COMPANY	07-07-03	12.00
X	TERRY L. STRAYER	07-07-05	30.98
Y	WAYNE E. GRAHAM	07-07-05.1	5.82
Z	PAMELA J. HOWARD	07-10-15	15.51
AA	GARY RAY DOBBS ET AL	07-10-18	131.97
BB	JAMES M. CLARK	07-10-10	14.68
CC	HAROLD E. & ANITA RUSH	07-10-23	41.13
DD	HAROLD E. & ANITA RUSH	07-10-23.1	1.33
EE	WILLIAM A. & STEPHANIE F. YEATER	07-16-29.3	41.50
FF	THELMA YEATER	07-16-29	40.41
GG	GLADYS R. BRIGGS	07-16-03	10.00
HH	JACK J. BRIGGS	07-16-05	37.88
II	MASON DIXON FARMS LLC	07-16-06	69.72

09/23/2016

REVISIONS:	COMPANY:	 
△ CORRECTED TICK MARK 12-15-2015 △ SHIFT BOTTOM HOLE & LANDING POINT 01-21-2016 △ SHIFTED LANDING POINT 08-09-2016 △ CORRECTED OWNERSHIPS & DHP 08-17-2016 △ ADDED H, I, & J	OPERATOR'S: GLADYS BRIGGS MSH WELL #: 205H LOCATION: LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA	
		DATE: 10-30-2015 DRAWN BY: N. MANO SCALE: N/A DRAWING NO: ADJOINING OWNERS

JACKSON SURVEYING

INC.

P.O. Box 1460
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Clarksburg, WV 26302
304-623-5851



NAME AND DISTANCE TO THE NEAREST STREAM:
FISH CREEK IS LOCATED ±0.49 MILES SW OF THE CENTER OF THE DRILL PAD.

STREAM CROSSING COORDINATES (NAD 83):
NO NEW CROSSINGS.

COMPANY:
SWN
Production Company, LLC

SWN^{R⁺}_A^{→V}⁺₊
Production Company™

WELL RESTRICTIONS:
WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET
WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET
WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET
WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET
CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET
CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET

OPERATOR'S: **GLADYS BRIGGS MSH**
WELL #: **205H**

LOCATION: **LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA**

SURFACE HOLE LOCATION:
GEOGRAPHIC (NAD83):
LATITUDE: 39.767173°
LONGITUDE: -80.615830°

FEMA FLOOD INFORMATION:
BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0200 E; EFFECTIVE DATE: SEPTEMBER 25, 2009.

BOTTOM HOLE LOCATION:
GEOGRAPHIC (NAD83):
LATITUDE: 39.788701°
LONGITUDE: -80.628505°

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- ⊗ ABANDONED WELL
- ⊗ PLUGGED & ABANDONED WELL
- △ CUT CONDUCTOR
- ⊙ EXISTING SPRING
- ⊙ EXISTING WATER WELL
- ▬ ACCESS ROAD
- ▬ ACCESS ROAD TO PREV. SITE
- ▬ HIGHWAY/INTERSTATE
- ▬ COUNTY ROAD

REVISIONS:	DATE: 10-30-2015
△ CORRECTED TICK MARK 12-15-2015	
△ SHIFT BOTTOM HOLE & LANDING POINT 01-21-2016	DRAWN BY: N. MANO
△ SHIFTED LANDING POINT 08-09-2016	SCALE: 1" = 2000'
△ CORRECTED OWNERSHIPS & DHP 08-17-2016	DRAWING NO:
△ ADDED H, I, & J	TOPOGRAPHIC MAP

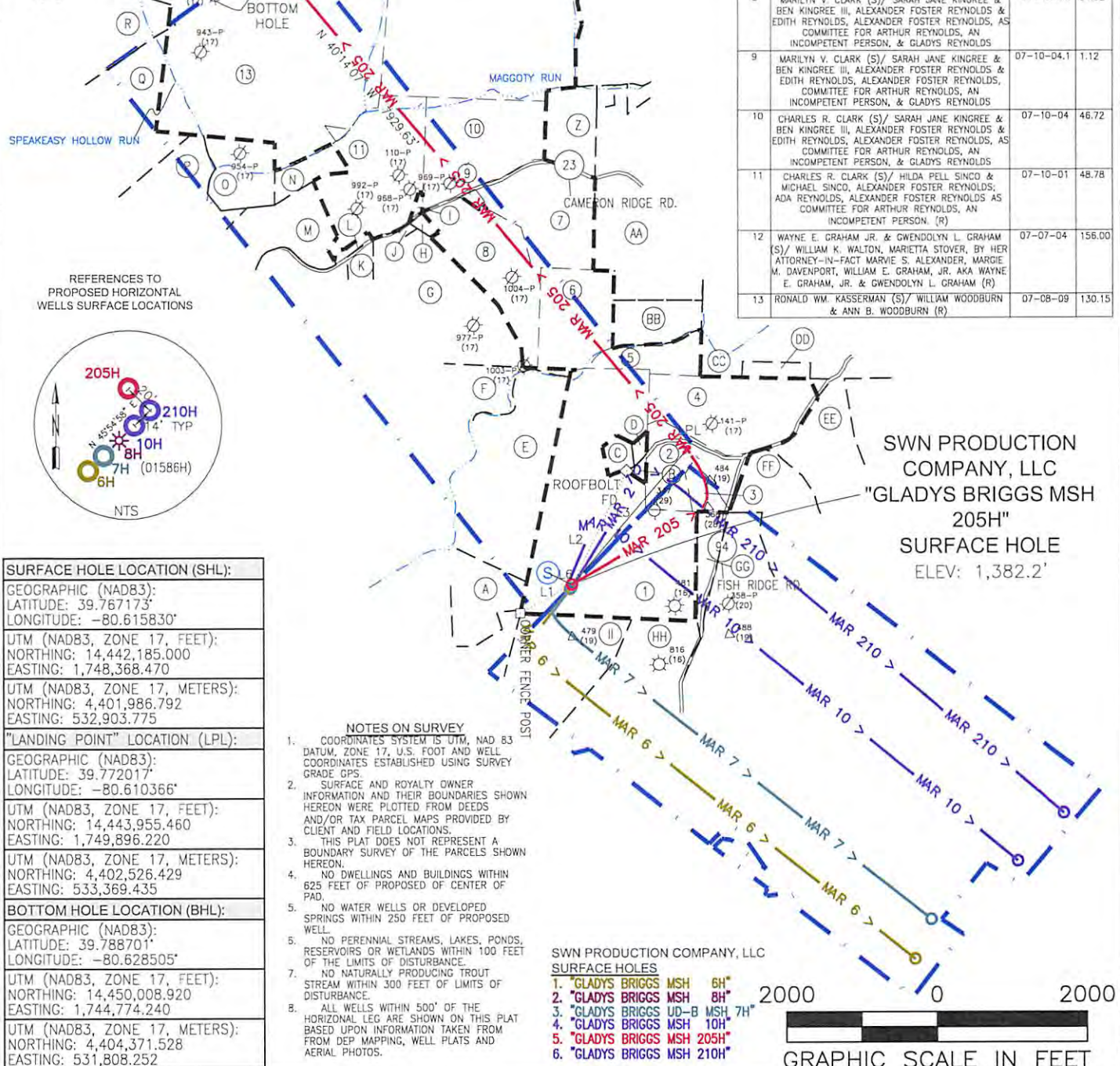
RECEIVED
Office of Oil and Gas
AUG 23 2016
09/23/2016
WV Department of
Environmental Protection

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

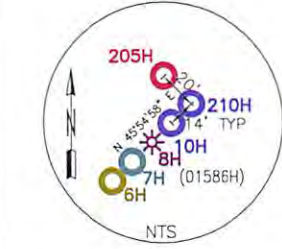
LINE	BEARING	DISTANCE	DESCRIPTION
L1	S 61°44'17" W	784.35'	SHL TO CNR FP
L2	N 26°00'25" E	1,661.53'	SHL TO ROOFBOLT
L3	N 40°47'29" E	2,338.49'	SHL TO LPL
L4	S 48°56'52" W	535.02'	SHL TO 12" TREE OF HEAVEN
L5	S 32°27'01" E	200.58'	SHL TO 18" LOCUST
L6	N 64°49'05" W	357.80'	SHL TO WATER RESERVOIR (SPRING)

TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL	ACRES
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
2	PRESTON YEATER & HEATHER L. YEATER (S)/ JAMES M. RINE & MARY B. RINE, FRANK HOPKINS & AUSTIA M. HOPKINS (R)	07-16-29.4	17.91
3	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
4	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, RALPH E. WILLIAMS, HARRY E. JOHNSON SR., JAMES L. MERCER & 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, KAREN SUE VALLEE A/K/A KAREN SUE VALLEE, DELMAR W. WILLIAMS & MARY LOU WILLIAMS, NILE L. WILLIAMS, LARRY C. WILLIAMS, CHESTNUT HOLDINGS INC. (R)	07-10-24	44.08
5	JAMES M. CLARK (S)/ OLIVE PRENDERGAST (R)	07-10-09	15.00
6	MARILYN V. CLARK (S)/ OLIVE PRENDERGAST (R)	07-10-11	25.00
7	CHARLES R. CLARK & MARILYN V. WHIPKEY (S)/ LOVINA CLARK; DORA REYNOLDS, REVERDY REYNOLDS & GOLDA F. REYNOLDS, SARAH JANE KINGREE & BEN KINGREE III, ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON & GLADYS REYNOLDS. (R)	07-10-12	35.30
8	MARILYN V. CLARK (S)/ SARAH JANE KINGREE & BEN KINGREE III, ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLADYS REYNOLDS	07-10-05	34.02
9	MARILYN V. CLARK (S)/ SARAH JANE KINGREE & BEN KINGREE III, ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLADYS REYNOLDS	07-10-04.1	1.12
10	CHARLES R. CLARK (S)/ SARAH JANE KINGREE & BEN KINGREE III, ALEXANDER FOSTER REYNOLDS & EDITH REYNOLDS, ALEXANDER FOSTER REYNOLDS, AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON, & GLADYS REYNOLDS	07-10-04	46.72
11	CHARLES R. CLARK (S)/ HILDA PELL SINCO & MICHAEL SINCO, ALEXANDER FOSTER REYNOLDS, ADA REYNOLDS, ALEXANDER FOSTER REYNOLDS AS COMMITTEE FOR ARTHUR REYNOLDS, AN INCOMPETENT PERSON. (R)	07-10-01	48.78
12	WAYNE E. GRAHAM JR. & GWENDOLYN L. GRAHAM (S)/ WILLIAM K. WALTON, MARIETTA STOVER, BY HER ATTORNEY-IN-FACT MARIE S. ALEXANDER, MARGIE M. DAVENPORT, WILLIAM E. GRAHAM, JR. AKA WAYNE E. GRAHAM, JR. & GWENDOLYN L. GRAHAM (R)	07-07-04	156.00
13	RONALD WM. KASSERMAN (S)/ WILLIAM WOODBURN & ANN B. WOODBURN (R)	07-08-09	130.15

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

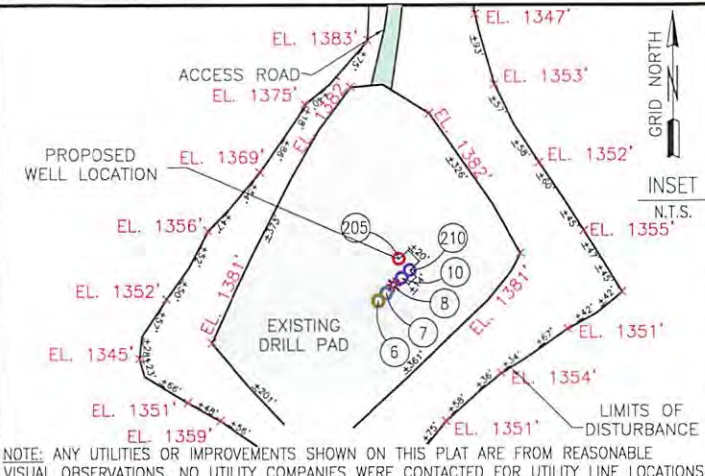
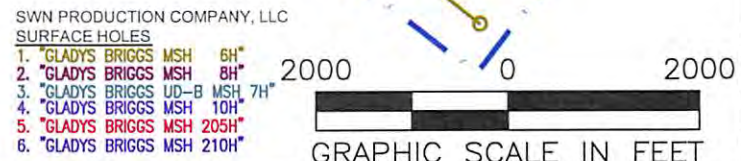


REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	LONGITUDE: -80.615830'
UTM (NAD83, ZONE 17, FEET):	EASTING: 1,748,368.470
UTM (NAD83, ZONE 17, METERS):	EASTING: 532,903.775
"LANDING POINT" LOCATION (LPL):	
GEOGRAPHIC (NAD83):	LONGITUDE: -80.610366'
UTM (NAD83, ZONE 17, FEET):	EASTING: 1,749,896.220
UTM (NAD83, ZONE 17, METERS):	EASTING: 533,369.435
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	LONGITUDE: -80.628505'
UTM (NAD83, ZONE 17, FEET):	EASTING: 1,744,774.240
UTM (NAD83, ZONE 17, METERS):	EASTING: 531,808.252

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.



NOTE: ANY UTILITIES OR IMPROVEMENTS SHOWN ON THIS PLAT ARE FROM REASONABLE VISUAL OBSERVATIONS. NO UTILITY COMPANIES WERE CONTACTED FOR UTILITY LINE LOCATIONS.

LEGEND:

○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT
⊙ EXISTING / PRODUCING WELLHEAD	- - - LEASE BOUNDARY
⊗ ABANDONED WELL	— 500' DHP BUFFER
⊘ PLUGGED & ABANDONED WELL	- - - MARCELLUS DHP
△ CUT CONDUCTOR	- - - ABANDONED PATH

COMPANY:	SWN Production Company, LLC
OPERATOR'S	GLADYS BRIGGS MSH
WELL #:	205H
LOCATION:	LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA
SURFACE HOLE LOCATION:	
GEOGRAPHIC (NAD83):	LONGITUDE: -80.615830'
BOTTOM HOLE LOCATION:	
GEOGRAPHIC (NAD83):	LONGITUDE: -80.628505'
REVISIONS:	DATE: 10-30-2015
△ CORRECTED TICK MARK 12-15-2015	DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: INTERNAL WELL PLAT
△ SHIFT BOTTOM HOLE & LANDING POINT 01-21-2016	
△ SHIFTED LANDING POINT 08-09-2016	
△ CORRECTED OWNERSHIPS & DHP 08-17-2016	
△ ADDED H, I, & J	

Adkins, Laura L

From: Adkins, Laura L
Sent: Thursday, September 15, 2016 9:54 AM
To: 'Dee Southall'; 'Brittany Woody'
Subject: Mod for Gladys Briggs MSH 205H 51-01873

Ladies,

I will need an area of review for the revised lateral.

Thank you,

Laura

Btw, my work cell no longer works so if you need me, text me on my personal cell at 304-546-8682.

Laura L. Adkins

Environmental Resource Specialist III
Permit Review
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 1495

THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN **20 DAYS** TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.

51-01873

SWN

Southwestern Energy®

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

September 1, 2016

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

RE: Proposed New Well Gladys Briggs MSH 205H API# 47-051-01873

Dear Ms. Adkins:

Enclosed please find a new WW-6B, and wbd for the above captioned well. We would like to modify the TVD and TMD. This well are situated on the Brigg's property in Marshall County, West Virginia.

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

Thank you.

Sincerely,



Dee Southall
Regulatory Supervisor
Southwestern Energy Production Company, LLC
PO Box 1300
Jane Lew, WV 26378

RECEIVED
Office of Oil and Gas

SEP 06 2016

WV Department of
Environmental Protection



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

09/23/2016