



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: 47-5101788, issued to SWN PRODUCTION COMPANY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: GLADYS BRIGGS MSH 6H
Farm Name: BRIGGS, HARRISON J. & GLADY
API Well Number: 47-5101788
Permit Type: Horizontal 6A Well
Date Issued: 01/08/2016

PERMIT CONDITIONS

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

CONDITIONS

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

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 51-Marshall Liberty Cameron
Operator ID County District Quadrangle

2) Operator's Well Number: Gladys Briggs MSH 6H Well Pad Name: Gladys Briggs MSH Pad

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

M 10/28/15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target Formation- Marcellus, Target Top TVD-7144', Target Base TVD-7179', Anticipated Thickness-35', Associated Pressure-4250

8) Proposed Total Vertical Depth: 7161'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 13,366'

11) Proposed Horizontal Leg Length: ~~6000'~~ 5687'

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 _____

(a) If Yes, provide Mine Info: Name: McElroy
Depth: 1099' **Received**
Seam: Pittsburgh **Office of Oil & Gas**
Owner: Consol Energy **NOV 09 2015**

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	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	13,366'	13,366'	Load 997 on 1392 lbf sq/100' inside
Tubing	2 3/8"	New	P-110	4.7#	Approx. 7161'	Approx. 7161'	
Liners							

10/28/15

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	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

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

Received
 Office of Oil & Gas
 NOV 09 2015

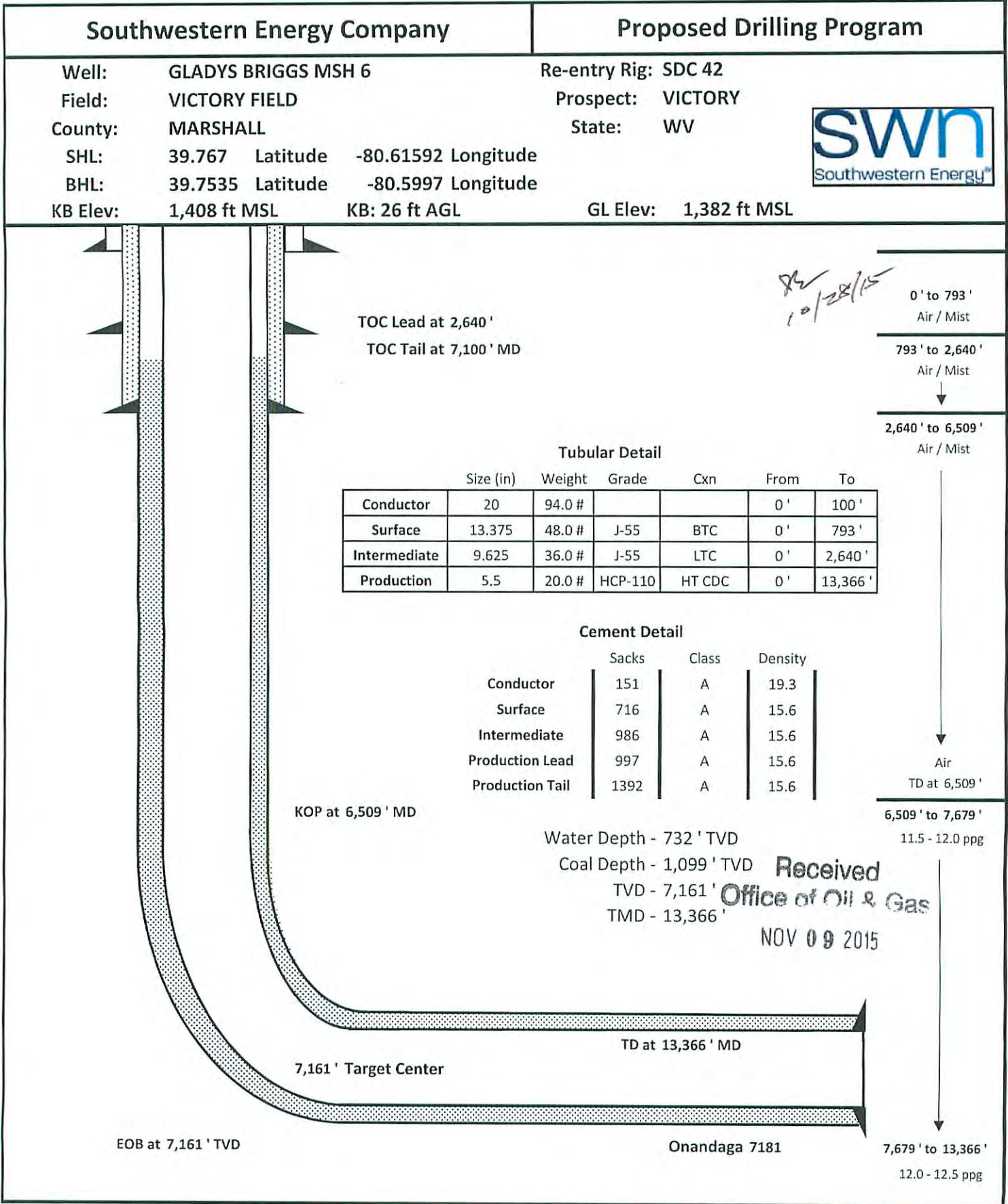
Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
Kick Off Plug	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Production-Lead	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D201	retarder	chrySTALLINE silica	14808-60-7
			metal oxide	proprietary
	D202	dispersant	sulphonated synthetic polymer	proprietary
formaldehyde (impurity)			proprietary	
Production-Tail	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgate)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
	D065	dispersant	sodium polynaphthalene sulfonate	9008-63-3
			sodium sulfate	7757-82-6
	D201	retarder	chrySTALLINE silica	14808-60-7
			metal oxide	proprietary
D153	anti-settling	chrySTALLINE silica	14808-60-7	

Received
Office of Oil & Gas

NOV 09 2015

01/08/2016



Legend

McElroy Mine CAD20111003

0 245 490 980 1,470 1,960 Feet

Gladys Briggs MSH

Received
Office of Oil & Gas
NOV 09 2015

01/08/2016



Coal / Marcellus South
Gladys Briggs Pad
Total Area: 1,960
Total Available
Total Available
Total Available
Total Available

WW-9
(9/13)

API Number 47 - 691 - 01788
Operator's Well No. Gladys Briggs MSH 6H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Fish Creek of Upper Ohio River 2 Quadrangle Cameron

Elevation 1382' County 51-Marshall District Liberty

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317)
- Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility.

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? see attached sheets

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? meadow SWF- 1032, SS Grading SWF- 4902, Northwestern SWF- 1025, Short Creek 1034/WW109517/CID28726, Carbon Limestone 28726/CID28726
Arden Landfill 10072, American 02-12954, Country wide 38390/CID38390, Pine Grove 13688

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature _____ **Received**

Company Official (Typed Name) Dee Southall **Office of Oil & Gas**

Company Official Title Regulatory Supervisor **NOV 09 2015**

Subscribed and sworn before me this 27th day of October

Brittany R Woody

My commission expires 11/27/22

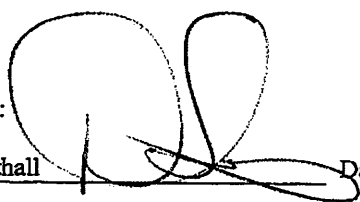


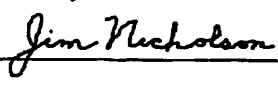
01/08/2016

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

SWN Production Co., LLC

47 - 051 - 01788
Well name: Gladys Briggs MSH 6H
Cameron, Quad
Liberty, District
Marshall County, West Virginia

Submitted by:  Date: 10/20/2015
Danielle Southall Title: Regulatory Supervisor SWN Production Co., LLC

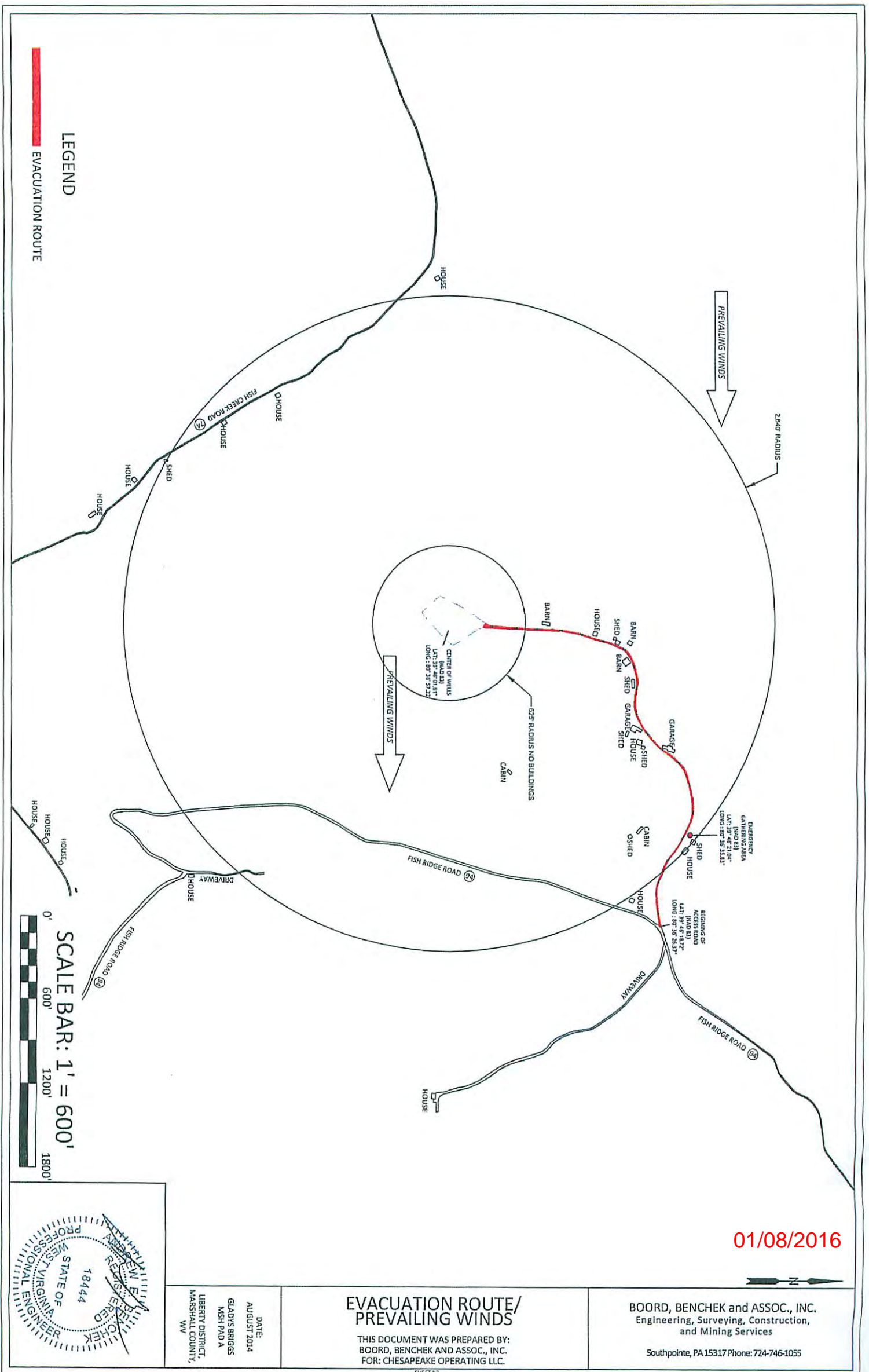
Approved by:  Date: 11/2/2015
Jim Nicholson Title: Oil & Gas Inspector

Approved by: _____ Date: _____
Title: _____

SWN Production Co., LLC -- Confidential

**Received
Office of Oil & Gas
NOV 09 2015**

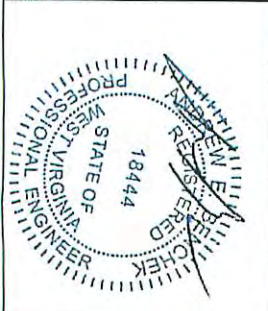
01/08/2016



LEGEND
 EVACUATION ROUTE

SCALE BAR: 1" = 600'
 0' 600' 1200' 1800'

01/08/2016



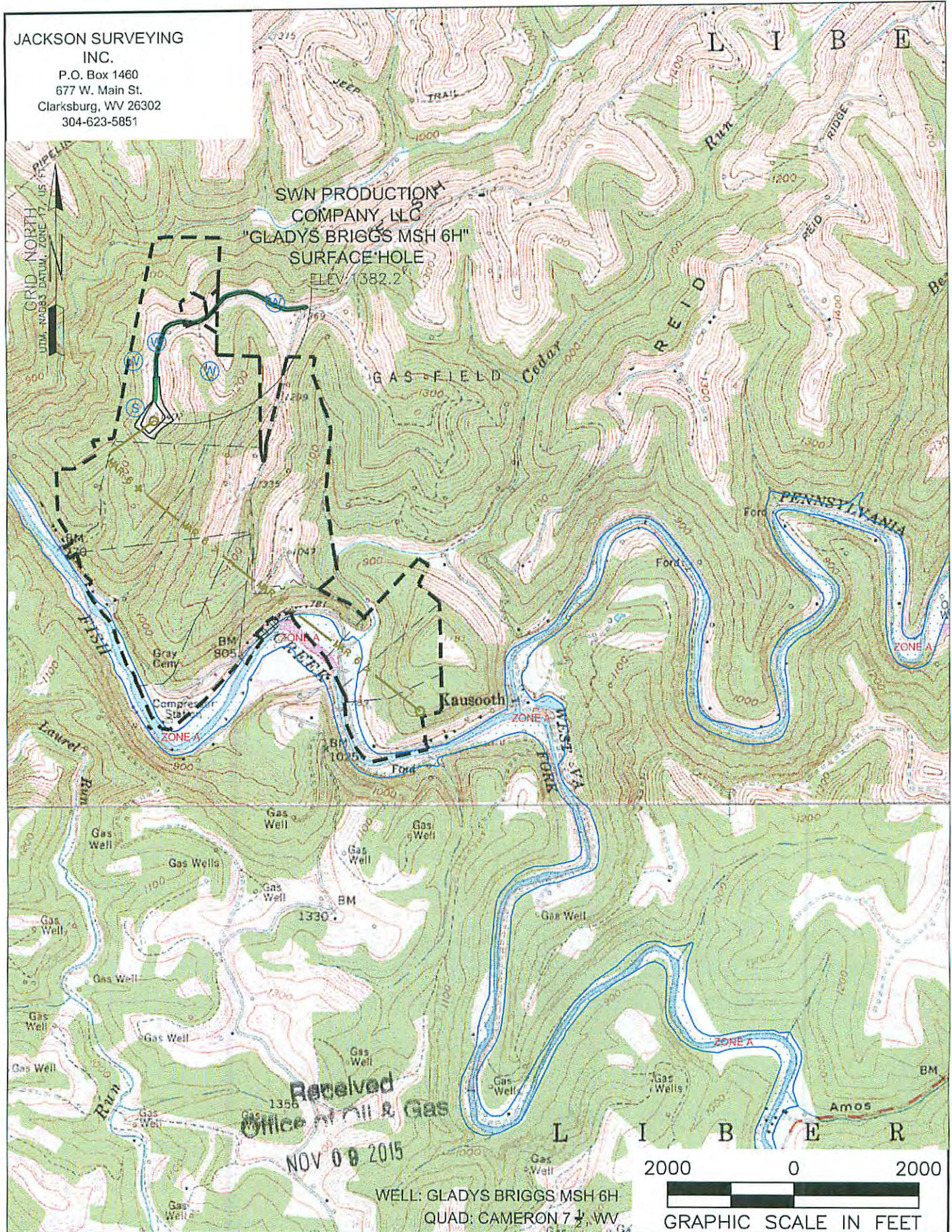
DATE: AUGUST 2014
 GLADYS BRIGGS
 MSH PAD A
 LIBERTY DISTRICT,
 MARSHALL COUNTY,
 WV

**EVACUATION ROUTE/
 PREVAILING WINDS**
 THIS DOCUMENT WAS PREPARED BY:
 BOORD, BENCHEK AND ASSOC., INC.
 FOR: CHESAPEAKE OPERATING LLC.

BOORD, BENCHEK and ASSOC., INC.
 Engineering, Surveying, Construction,
 and Mining Services
 Southpointe, PA 15317 Phone: 724-746-1055

47-051-01788

JACKSON SURVEYING
INC.
P.O. Box 1460
677 W. Main St.
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: 	
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 #: 6H	
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.		LOCATION: LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.767027° LONGITUDE: -80.615924°	
LEGEND: 		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.754313° LONGITUDE: -80.601016		REVISIONS: Δ 11-02-2015 BOTTOM HOLE ADJUSTED.	
		DATE: 11-05-2015		DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: TOPOGRAPHIC MAP	

01/08/2016

JACKSON SURVEYING INC.
 P.O. Box 1480
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION
L1	S 64°25'30" W	736.89'	SHL TO CNR FP
L2	N 26°00'43" E	1,720.89'	SHL TO ROOFBOLT
L3	S 12°49'45" W	1,102.92'	SHL TO LPL
L4	S 51°41'21" W	480.85'	SHL TO 12" TREE OF HEAVEN
L5	S 49°04'37" E	177.06'	SHL TO 18" LOCUST
L6	N 55°22'28" W	361.70'	SHL TO WATER RESERVOIR

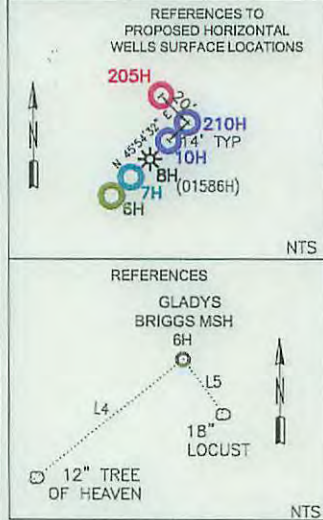
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS (S) / DAVID BONAR, HARRISON J. BRIGGS, & GLADYS R. BRIGGS (R)	7-16-02	121.43
2	MASON DIXON FARMS LLC (S) / W. H. LOPER & BERTIE LOPER (R)	7-16-06	69.72
3	JACK J. BRIGGS (S) / T.D. EMERY & SADIE B. EMERY (R)	7-16-05	37.88
4	MASON DIXON FARMS LLC (S) / JANET L. POCHAN, PATRICIA PHILLIPS & EDWARD S. PHILLIPS, MARY IRENE CRUMLEY DODD, A/K/A IRENE CRUMLEY, ARTHUR LAVERNE GRAY, C. DWAIN GRAY AND VIRGINIA W. GRAY, CARL E. SCHONER JR., CLARK RICHARD GRAY AND LILLIAN GRAY, MARGARET A. GOETZ, F/K/A MARGARET A. GRAY, MERLE M. HINKLE (LIFE ESTATE) BY HER ATTORNEY-IN-FACT, WILLIAM F. HINKLE AND WILLIAM F. HINKLE (REMAINDER), MARILYN J. MINCKS AND EUGENE F. MINCKS, DAVY LOU ASHTON, JOSEPH ASHTON, HAYHURST COMPANY, PAUL DOUGLAS GRAY AND SALLY S. GRAY, JOHN LEWIS GRAY AND JUDY GRAY (R)	7-16-07	64.73
5	COLUMBIA GAS TRANSMISSION CORP. (S) / WILMA M. GATTEN A/K/A WILMA G. KESTNER BY HER ATTORNEY-IN-FACT MARGARET A. FALLOVA (R)	7-19-10 7-16-08	55.15
6	JOHN DEAN BRIGGS & PATTY KAY BRIGGS (S) / W.H. LOPER & BERTIE LOPER (R)	7-16-04	81.25
7	EDWARD SILCOX (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R)	7-16-09	11.21
8	ROBERT M. SCHIFFER (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R)	7-16-19	0.22
9	ROBERT M. SCHIFFER & SANDRA L. SCHIFFER (S) / D.E. BURGE & SARAH BURGE A/K/A SARAH L. BURGE (R)	7-16-20	0.79
10	WILLIAM ZERVOS JR. (S) / THE TRUST OF HAROLD L. YEATER A/K/A THE LIVING TRUST OF HAROLD L. YEATER DATED 1/ 29/ 1990 BY STEPHEN L. YEATER AND DEBORAH Y. SHAW ACTING AS CO-TRUSTEES, RICHARD LEE PARRISH AND TERI LEE PARRISH, ALLEN L. YEATER, RACHEL A. YEATER, KAREN Y. JONES, CHESTNUT HOLDINGS INC., CHEASAPEAKE APPALACHIA LLC (R)	7-16-21	3.00

SURFACE HOLE LOCATION (SHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,401,970.552
 EASTING: 532,895.802

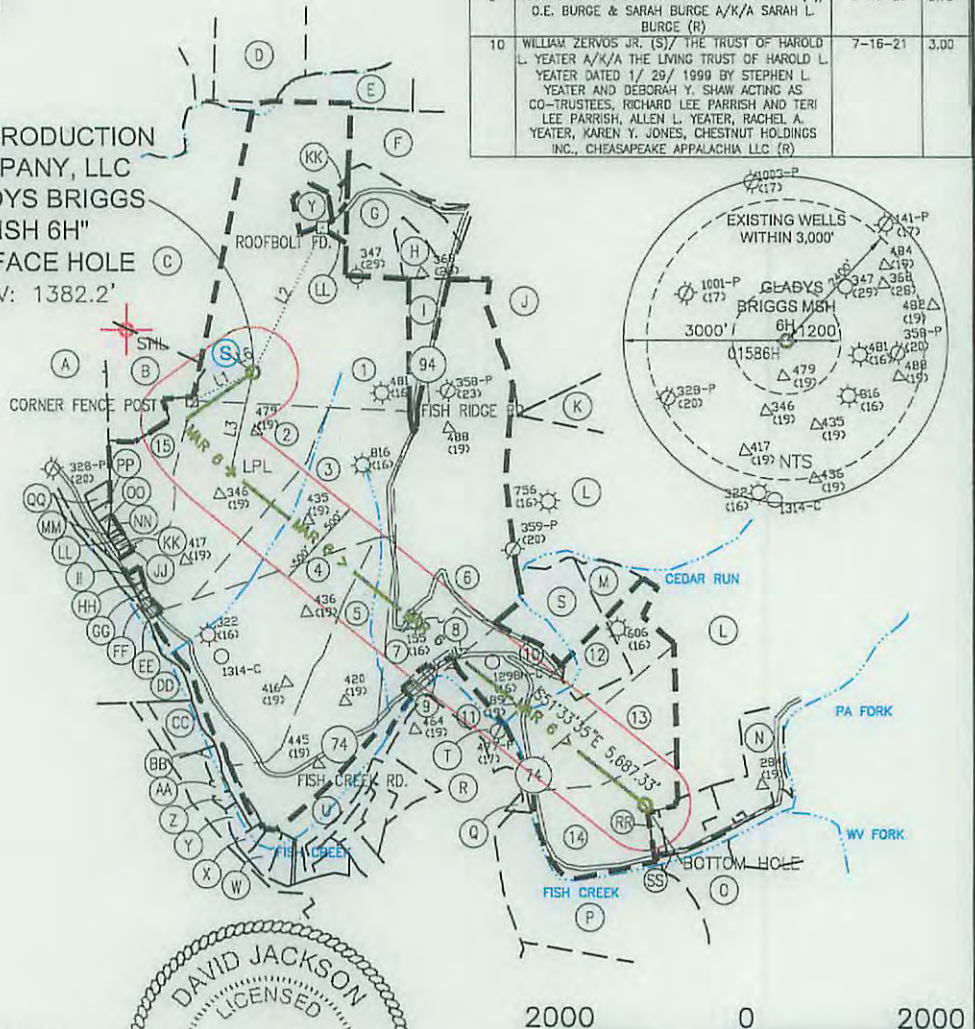
LANDING POINT LOCATION (LPL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,401,642.773
 EASTING: 532,821.156

BOTTOM HOLE LOCATION (BHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,400,565.056
 EASTING: 534,178.933

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



SWN PRODUCTION COMPANY, LLC
"GLADYS BRIGGS MSH 6H"
SURFACE HOLE
 ELEV: 1382.2'



- 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 AND AERIAL PHOTOS

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*



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: 6H API WELL #: 47 051 0178846A STATE COUNTY PERMIT
	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"/>	WATERSHED: FISH CREEK OF UPPER OHIO RIVER 2 DISTRICT: LIBERTY COUNTY: MARSHALL SURFACE OWNER: JAMES RODNEY BRIGGS, ROGER JACOB BRIGGS & JOHN DEAN BRIGGS OIL & GAS ROYALTY OWNER: DAVID BONAR; HARRISON J. BRIGGS & GLADYS R. BRIGGS

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,161' TWD 13,766' TWD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
 ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26378 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 6 --- ABANDONED PATH	REVISIONS: Δ 11-02-2015 BOTTOM HOLE ADJUSTED. DATE: 11-05-2015 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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47-051-01788

JACKSON SURVEYING
INC.

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

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER(S)	TAX PARCEL	ACRES
A	MASON DIXON FARMS LLC (S)	07-17-33	217.08
B	MASON DIXON FARMS LLC (S)	07-17-19	22.80
C	MCELROY COAL COMPANY (S)	07-10-08	50.77
D	MARILYN V. CLARK (S)	07-10-11	25.00
E	JAMES M. CLARK (S)	07-10-09	15.00
F	VINCENT E. LEMASTERS (S)	07-10-24	44.08
G	PRESTON & HEATHER L. YEATER (S)	07-16-29.4	17.91
H	PRESTON A. YEATER ET UX (S)	07-16-29.2	4.92
I	GLADYS R. BRIGGS (S)	07-16-03	10.00
J	THELMA YEATER (LIFE) (S)	07-16-29	40.41
K	RICHARD M. YEATER ET UX (S)	07-16-29.1	18.39
L	GEORGE R. CUMPSTON ET UX (S)	07-16-24	122.87
M	CHARLES E. HORNER ET UX (LIFE) (S)	07-16-23	7.06
N	GAIL CUMPSTON (S)	07-19-20	14.73
O	PEGGY M. GRIBBEN (S)	07-19-28	112.16
P	NICK ZELIC ET UX (S)	07-19-27	36.00
Q	SAMMY SUHODOLSKI (S)	07-19-17	0.84
R	JOHN M. & TERESA L. HORNER (S)	07-19-12	75.03
S	MICHAEL J. HORNER (S)	07-16-23.1	24.99
T	CHARLES E. HORNER ET UX (LIFE) (S)	07-16-23	16.71
U	MARY ESTHER GRIMM (LIFE) (S)	07-19-10.1	5.00
W	CAROLYN RUTH FRANCIS (S)	07-19-07	2.40
X	MASON DIXON FARMS LLC (S)	07-19-06	1.19
Y	CAROLYN JO & DENNY R. MORRIS (S)	07-19-05	1.33
Z	MICHAEL E. & DONNA D. RICHARDS (S)	07-19-03	0.45
AA	KATHRYN L. LEACH (S)	07-19-02	0.56
BB	MICHAEL & DONNA RICHARDS (S)	07-19-08.2	1.00
CC	MASON DIXON FARMS LLC (S)	07-19-08.9	6.07
DD	MASON DIXON FARMS LLC (S)	07-17-33	217.08
EE	JERRY WHORTON ET UX (S)	07-16-07.1	0.32
FF	JERRY & CYNTHIA C WHORTON (S)	07-17-32	0.29
GG	JERRY & CYNTHIA C. WHORTON (S)	07-17-31	0.24
HH	JAMES STEPHEN BARKER (S)	07-17-30	0.26
II	RALPH MARTIN TAYLOR (S)	07-17-29	0.50
JJ	KAREN K. CHAMPION (S)	07-17-26.1	0.33
KK	EDWARD YOHO (S)	07-17-26	0.20
LL	PHILLIP L. LOGSDON (S)	07-17-25	0.29
MM	PHILLIP L. LOGSDON (S)	07-17-24	0.29
NN	KEVIN B. MCELWEE (S)	07-17-23	LOT
OO	KEVIN B. MCELWEE (S)	07-17-22	0.42
PP	CHRISTINA Y. RICHMOND (S)	07-17-21	0.63
QQ	MASON DIXON FARMS LLC (S)	07-17-21	1.30
RR	JAMES E. REGIEC SR. & JAMES E. REGIEC (S)	07-19-23.1	1.17
SS	JAMES F. DRUSCHEL & JAMIE ANN DRUSCHEL, JACK S. HUGGINS AND TERRY L. HUGGINS, JOSEPH SEDINGER AND MICKEY D. SEDINGER, SHEILA J. MCGILL (S)	07-19-23	4.43

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
11	DELORSE A. HORNER (LIFE ESTATE) REMAINDERMEN: DOROTHY S. PRICE & MITCHELL J. PRICE (S)/ RICHARD LEE PARRISH AND TERI LEE PARRISH, RACHEL A. YEATER, KAREN Y. JONES, ALLEN L. YEATER, THE TRUST OF HAROLD L. YEATER, A/K/A THE LIVING TRUST OF HAROLD L. YEATER DATED 1/29 /1999 BY STEPHEN L. YEATER AND DEBORAH Y. SHAW, ACTING AS CO-TRUSTEES, CHESTNUT HOLDINGS INC., MOUNTAIN MINERALS LLC (R)	7-16-23	16.71
12	DELORSE A. HORNER (LIFE ESTATE), REMAINDERMEN: DOROTHY S. PRICE AND MITCHELL J. PRICE (S)/ LARRY W. YEATER, CHESTNUT HOLDINGS INC. (R)	7-16-22	18.67
13	DELORSE A. HORNER (LIFE ESTATE), REMAINDERMEN: DOROTHY S. PRICE AND MITCHELL J. PRICE (S)/ CHESTNUT HOLDINGS INC. (R)	7-19-18	26.77
14	DELORSE A. HORNER (LIFE ESTATE), REMAINDERMEN: DOROTHY S. PRICE AND MITCHELL J. PRICE (S)/ DONALD REX QUIGLEY, FRED A QUIGLEY, SANDRA SUE CUMPSTON AND KEITH D. CUMPSTON, JAMES L. REID AND SHERRY L. REID, JUNE A. REID A/K/A JUNE REID	7-19-26	28.34
15	MASON DIXON FARMS LLC (S) / W. H. LOPER AND BERTIE LOPER (R)	7-17-19.1	20.00

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01/08/2016

REVISIONS: ▲ 11-02-2015 BOTTOM HOLE ADJUSTED.	COMPANY: SWN Production Company, LLC	SWN ^{RT} _A ^V ₊ Production Company™
	OPERATOR'S GLADYS BRIGGS MSH	DATE: 11-05-2015
	WELL #: 6H	DRAWN BY: N. MANO
	LOCATION: LIBERTY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA	SCALE: N/A
		DRAWING NO: ADJOINING OWNERS

WW-6A1
(5/13)

Operator's Well No. Gladys Briggs MSH 6H

**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 L. Williams
 Its: S. Landman

Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	7-16-02	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	7-16-06	Mason Dixon Farms, LLC	69.7200	1-254733-000	W. H. Loper and Bertie Loper	Wheeling Natural Gas Company	12.50%	139/493
					Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		3/40
					The Manufacturers Light and Heat Company	Union Gasoline and Oil Corporation		148/389
					Union Gasoline and Oil Corporation	The Preston Oil Company		197/120
					The Preston Oil Company	The Manufacturers Light and Heat Company		2/136
					The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		2/225
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		422/204
					Columbia Natural Resources, LLC	Columbia Natural Resources, LLC		642/281
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		650/63
					Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
3	7-16-05	Jack J. Briggs	37.8800	1-254732-000	T.D. Emery and Sadie B. Emery, his wife	The Wheeling Natural Gas Company	12.50%	132/443
					Wheeling Natural Gas Company	The Manufacturers Light and Heat Company		3/40
					The Manufacturers Light and Heat Company	Union Gasoline and Oil Corporation		148/389
					Union Gasoline and Oil Corporation	The Preston Oil Company		197/120
					The Preston Oil Company	The Manufacturers Light and Heat Company		2/136
					The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		2/225
					Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		422/204
					Columbia Natural Resources, LLC	Columbia Natural Resources, LLC		642/281
					Columbia Gas Transmission Corporation	Chesapeake Appalachia, LLC		650/63
					Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC		662/322
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
4	7-16-07	Mason Dixon Farms, LLC	64.7334	1-240107-001	Janet L. Pochan, a single woman	Chesapeake Appalachia, LLC	12.50%	660/409
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
					1-240107-002	Patricia Phillips and Edward S. Phillips, her husband		Chesapeake Appalachia, LLC

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Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-003	Mary Irene Crumley Dodd, a/k/a Irene Crumley, a widow	Chesapeake Appalachia, LLC	12.50%	660/503
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-004	Arthur Laverne Gray, a widower	Chesapeake Appalachia, LLC	12.50%	661/103
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-005	C. Dwaine Gray and Virginia W. Gray, his wife	Chesapeake Appalachia, LLC	12.50%	661/556
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-006	Carl E. Schoner Jr., a widower	Chesapeake Appalachia, LLC	12.50%	661/562
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-007	Clark Richard Gray and Lillian Gray, his wife	Chesapeake Appalachia, LLC	12.50%	661/553
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-009	Margaret A. Goetz, f/k/a Margaret A. Gray, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	12.50%	662/7
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-010	Merle M. Hinkle, a widow (Life Estate Interest), by her Attorney-In-Fact, William F. Hinkle, and William F. Hinkle, a married man dealing in his sole and separate property, (Remainder Interest)	Chesapeake Appalachia, LLC	12.50%	662/627
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-011	Marilyn J. Mincks and Eugene F. Mincks, her husband	Chesapeake Appalachia, LLC	12.50%	663/298
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582
				1-240107-012	Davy Lou Ashton, a single woman	Chesapeake Appalachia, LLC	12.50%	663/286
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-013	Joseph Ashton, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	12.50%	663/295
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-014	Hayhurst Company, a Florida Partnership	Chesapeake Appalachia, LLC	12.50%	667/246
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-015	Paul Douglas Gray and Sally S. Gray, his wife	Chesapeake Appalachia, LLC	12.50%	679/16

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Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-240107-016	John Lewis Gray and Judy Gray, his wife	Chesapeake Appalachia, LLC	12.50%	679/13
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
5	7-19-10 7-16-08	Columbia Gas Transmission, LLC	55.1500	1-236873-000	Wilma M. Gatten, f/k/a Wilma G. Kestner, a widow, by her Attorney-In-Fact, Margaret A. Fallova	Chesapeake Appalachia, LLC	12.50%	658/217
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
6	7-16-04	John Dean Briggs and Patty Kay Briggs (h/w,JT)	81.2500	1-254966-000	W.H. Loper and Bertie Loper, his wife	T.L. Davis	12.50%	146/489
					T.L. Davis	W.H. Young		146/493
					W.H. Young	J.E. Davis		146/494
					J.E. Davis	J.W. Miller		146/494
					J.E. Davis and Hettie M. Davis, his wife	Jefferson Oil Company		147/254
					J.W. Miller and Jeannette K. Miller, his wife	Jefferson Oil Company		147/255
					Jefferson Oil Company	Carnegie Natural Gas Company		177/74
					Carnegie Natural Gas Company	The Manufacturers Light and Heat Company		3/93
					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	7-16-09	Edward Silcox	11.2080	1-240093-001	O.E. Burge and Sarah Burge, a/k/a Sarah L. Burge, his wife	Chesapeake Appalachia, LLC	12.50%	660/348
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				Sublease	NiSource Energy Ventures, LLC	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	7-16-19	Robert M. Schiffer	0.2600	1-240093-001	O.E. Burge and Sarah Burge, a/k/a Sarah L. Burge, his wife	Chesapeake Appalachia, LLC	12.50%	660/348
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				Sublease	NiSource Energy Ventures, LLC	Columbia Natural Resources, LLC		642/281

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#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
					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	7-16-20	Robert M. Schiffer and Sandra L. Schiffer (h/w, JT)	0.7920	1-240093-001	O.E. Burge and Sarah Burge, a/k/a Sarah L. Burge, his wife	Chesapeake Appalachia, LLC	12.50%	660/348
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				Sublease	NiSource Energy Ventures, LLC	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
10	7-16-21	William Zervos, Jr.	3.0000	1-236953-009	The Trust of Harold L. Yeater, a/k/a The Living Trust of Harold L. Yeater, dated January 29, 1999, by Stephen L. Yeater and Deborah Y. Shaw, acting as Co-Trustees	Chesapeake Appalachia, LLC	17.00%	765/131
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-241162-001	Richard Lee Parrish and Teri Lee Parrish, his wife	Chesapeake Appalachia, LLC	12.50%	663/292
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-241162-006	Allen L. Yeater, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	17.00%	720/218
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-241162-007	Rachel A. Yeater, a single woman	Chesapeake Appalachia, LLC	17.00%	748/448
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-241162-008	Karen Y. Jones, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	749/114
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-241162-009	Chestnut Holdings, Inc., a Florida Corporation	Chesapeake Appalachia, LLC	17.00%	758/396
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				WV0000303-001	Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	15.00%	772/475
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582
				WV0000303-002	Chesapeake Appalachia, LLC	Chesapeake Appalachia, LLC	15.00%	772/481
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		34/582

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21-01789

Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG						
11	7-16-23	Delorse A. Horner, Life Estate Remaindermen: Dorothy S. Price and Mitchell J. Price (h/w, JT)	16.7070	1-236953-004	Richard Lee Parrish and Teri Lee Parrish, his wife	Chesapeake Appalachia, LLC	12.50%	659/209						
						Chesapeake Appalachia, LLC			SWN Production Company, LLC	33/110				
									1-236953-006	Rachel A. Yeater, a single woman	Chesapeake Appalachia, LLC	17.00%	749/149	
										Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110		
										1-236953-007	Karen Y. Jones, a married woman dealing in her sole and separate property	Chesapeake Appalachia, LLC	17.00%	749/125
											Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110	
										1-236953-008	Allen L. Yeater, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	17.00%	752/561
											Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110	
											The Trust of Harold L. Yeater, a/k/a The Living Trust of Harold L. Yeater, dated January 29, 1999, by Stephen L. Yeater and Deborah Y. Shaw, acting as Co-Trustees	Chesapeake Appalachia, LLC	17.00%	765/131
											Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110	
12	7-16-22	Delorse A. Horner, Life Estate Remaindermen: Dorothy S. Price and Mitchell J. Price (h/w, JT)	26.6682	1-235785-001	Larry W. Yeater, widower	Chesapeake Appalachia, LLC	12.50%	657/279						
						Chesapeake Appalachia, LLC			SWN Production Company, LLC	33/110				
									1-235785-003	Chestnut Holdings Inc., a Florida Corporation	Chesapeake Appalachia, LLC	17.00%	767/104	
										Chesapeake Appalachia, LLC	SWN Production Company, LLC	33/110		
										WV0000041-001	Mountain Minerals LLC	Chesapeake Appalachia, LLC	15.00%	679/465
											Chesapeake Appalachia, LLC	SWN Production Company, LLC	34/582	
13	7-19-18	Delorse A. Horner, Life Estate Remaindermen: Dorothy S. Price and Mitchell J. Price (h/w, JT)	26.7700	1-235786-000	Chestnut Holdings Inc., a Florida Corporation	Chesapeake Appalachia, LLC	17.00%	766/345						

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Exhibit A

#	TMP	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
14	7-19-26	Delorse A. Horner, Life Estate Remaindermen: Dorothy S. Price and Mitchell J. Price (h/w, JT)	28.3400	1-226007-005	Donald Rex Quigley, a married man dealing in his sole and separate property	Chesapeake Appalachia, LLC	17.00%	716/223
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-226007-006	Freda Quigley, a widow	Chesapeake Appalachia, LLC	17.00%	716/219
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-226007-008	Sandra Sue Cumpston and Keith D. Cumpston, her husband	Chesapeake Appalachia, LLC	17.00%	787/525
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-226007-009	James L. Reid and Sherry L. Reid, his wife	Chesapeake Appalachia, LLC	17.00%	787/519
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110
				1-226007-010	June A. Reid, a/k/a June Reid, a widow	Chesapeake Appalachia, LLC	17.00%	794/15
					Chesapeake Appalachia, LLC	SWN Production Company, LLC		33/110

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SI-01766

SWN

Southwestern Energy®

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 6H, Gladys Briggs UD-B MSH 7H, Gladys Briggs MSH 10H & Gladys Briggs MSH 210H in Marshall County, West Virginia, Drilling under Fish Creek 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 Fish Creek 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
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+

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01/08/2016

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

Date of Notice Certification: 10/8/14

API No. 47- 51 - 01788
Operator's Well No. Gladys Briggs MSH 6H
Well Pad Name: Gladys Briggs MSH Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>WV</u>	UTM NAD 83	Easting: <u>532898.9</u>
County: <u>51-Marshall</u>		Northing: <u>4401973.4</u>
District: <u>4-Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>	
Quadrangle: <u>278-Cameron</u>	Generally used farm name: <u>Gladys Briggs</u>	
Watershed: <u>Fish Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED <input type="checkbox"/> RECEIVED
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OCT 09 2014

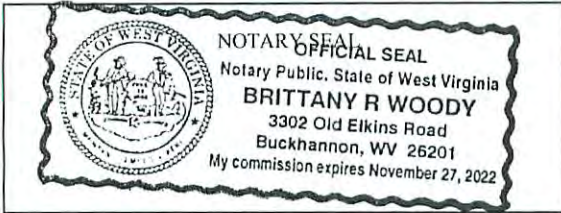
Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I Dee Southall, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	<u>Chesapeake Appalachia, LLC</u>	Address:	<u>PO Box 1300</u>
By:	<u>Dee Southall</u>		<u>Jane Lew, WV 26378</u>
Its:	<u>Regulatory Analyst II</u>	Facsimile:	<u>304-471-2497</u>
Telephone:	<u>304-517-1416</u>	Email:	<u>danielle.southall@chk.com</u>



Subscribed and sworn before me this 25th day of August 2014
Brittany R Woody Notary Public
 My Commission Expires 11/27/22

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.

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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 than the filing date of permit application.

Date of Notice: 10/8/14 Date Permit Application Filed: 10/8/14

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: James Rodney Briggs ✓
Address: 531 Briggs Lane
Cameron, WV 26033

Name: John D. & Patty K. Briggs ✓
Address: 342 Briggs Lane
Cameron, WV 26033

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Jack Briggs ✓
Address: 307 Briggs Lane
Cameron, WV 26033

Name: Vincent E. Lemasters ✓
Address: 103 Briggs Lane
Cameron, WV 26003

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE ✓
Name: Consol Energy, Inc. %Leatherwood
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317-6506

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: ***SEE ATTACHMENT***
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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OCT 09 2014

01/08/2016

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 than the **filing date of permit application.**

Date of Notice: _____ **Date Permit Application Filed:** _____

Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: Roger Jacob Briggs ✓
Address: 531 Briggs Lane
Cameron, WV 26033

Name: Preston & Heather L Yeater ✓
Address: 3663 Fish Ridge Rd
Cameron, WV 26033

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Thelma Yeater
Address: 82 Fish Ridge Rd
Cameron, WV 26033

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: Office of Oil & Gas

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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OCT 09 2014

01/08/2016

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 upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the risks of 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

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

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 & Gas
OCT 09 2014

WW-6A
(8-13)

API NO. 47-51 - 01788
OPERATOR WELL NO. Gladys Briggs MSH 6H
Well Pad Name: Gladys Briggs MSH Pad

Notice is hereby given by:

Well Operator: Chesapeake Appalachia, LLC
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com

Address: PO Box 1300
Jane Lew, WV 26378
Facsimile: 304-471-2497

Oil and Gas Privacy Notice:

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



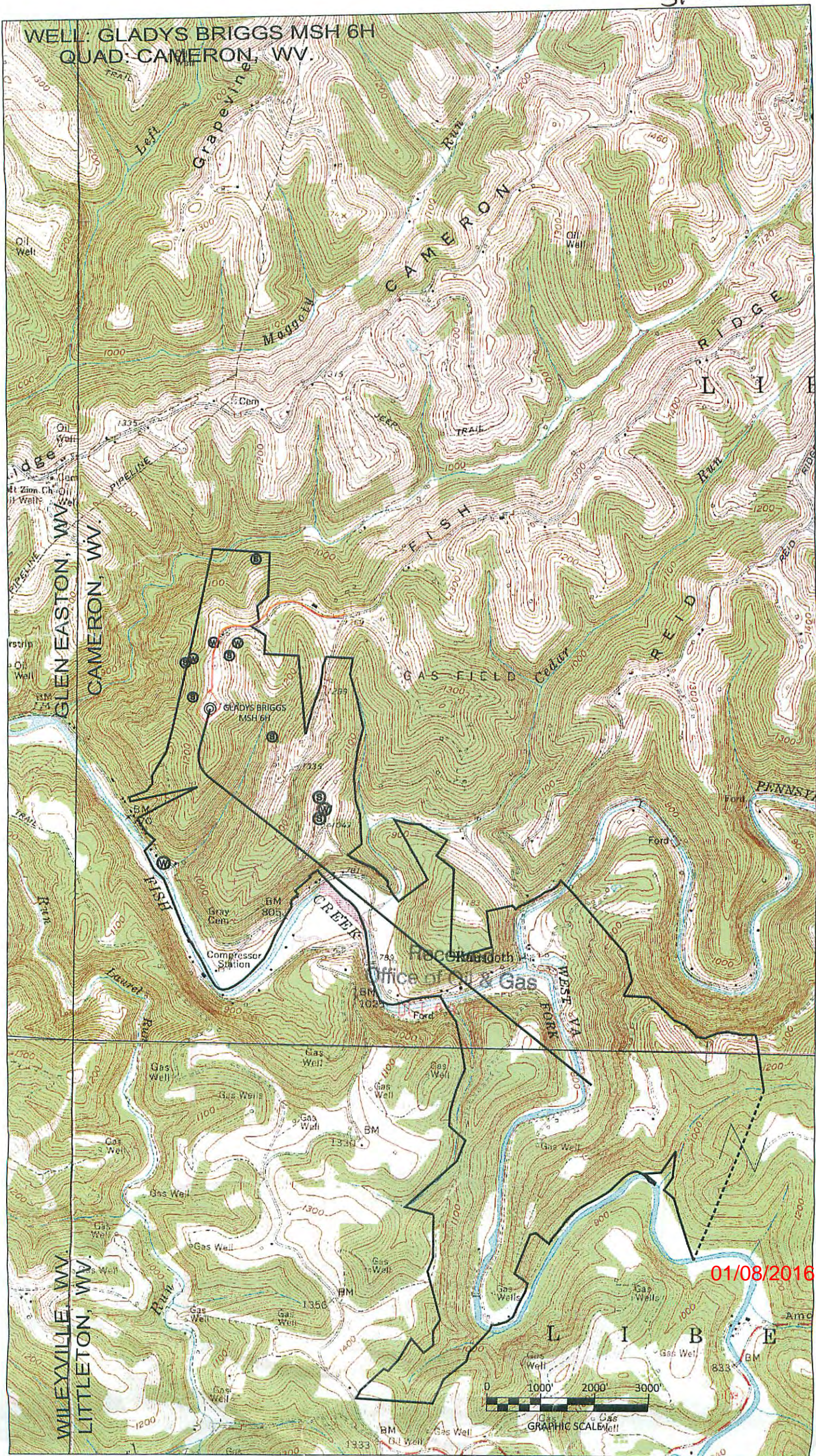
Subscribed and sworn before me this 25th day of August 2014
Brittany R Woody Notary Public
My Commission Expires 11/27/22

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01/08/2016

SI-0118

WELL: GLADYS BRIGGS MSH 6H
QUAD: CAMERON, WV.



01/08/2016



<u>Property Owner(s)</u>	<u>Owner Address</u>	<u>City</u>	<u>State</u>	<u>Zip</u>	<u>Owner Phone No.</u>
BRIGGS, GLADYS R. ESTATE c/o JOHN BRIGGS	342 BRIGGS LANE	CAMERON	WV	26033	(304)686-3768
BRIGGS, JACK J.	307 BRIGGS LANE	CAMERON	WV	26033	(304)686-3521

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SI-01788

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.
Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/08/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Thelma Yeater
Address: 82 Fish Ridge Rd.
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>532898.9</u>
County:	<u>Marshall</u>	Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____
Watershed:	<u>Big Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

Oil and Gas Privacy Notice:

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

Received
Office of Oil & Gas
OCT 09 2014

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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 09/02/2014 **Date Permit Application Filed:** 8/14/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Preston & Heather L. Yealer
Address: 3663 Fish Ridge Rd
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 532898.9
County: Marshall Northing: 4401973.4
District: Liberty Public Road Access: Fish Ridge Road
Quadrangle: Cameron Generally used farm name: _____
Watershed: Big Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

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Received
Office of Oil & Gas
OCT 09 2014

**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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Roger Jacob Briggs
Address: 531 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>532898.9</u>
County: <u>Marshall</u>	Northing: <u>4401973.4</u>
District: <u>Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: _____
Watershed: <u>Big Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

Received
Office of Oil & Gas

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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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: John D. & Patty Briggs
Address: 342 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 532898.9
County: Marshall Northing: 4401973.4
District: Liberty Public Road Access: Fish Ridge Road
Quadrangle: Cameron Generally used farm name: _____
Watershed: Big Run

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

Received
Office of Oil & Gas
September 9 2014

Oil and Gas Privacy Notice:

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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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Vincent E. Lamasters
Address: 103 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>532898.9</u>
County:	<u>Marshall</u>		Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>	
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____	
Watershed:	<u>Big Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

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Received
Office of Oil & Gas
10/10/2014

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

- HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Jack Briggs
Address: 307 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>532898.9</u>
County: <u>Marshall</u>	Northing: <u>4401973.4</u>
District: <u>Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: _____
Watershed: <u>Big Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

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Received
Office of Oil & Gas
OCT 9 2014

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 Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 09/02/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: James Rodney Briggs
Address: 531 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>532898.9</u>
County:	<u>Marshall</u>	Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____
Watershed:	<u>Big Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator: Chesapeake Appalachia LLC
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: micah.feather@chk.com
Facsimile: 304-471-2497

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Telephone: 304-517-1416
Email: Danielle.Southall@chk.com
Facsimile: 304-471-2497

Received
Office of Oil & Gas
SEP 11 2014

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WW-6A5
(1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/1/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **DELIVERY**

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Vincent E. Lemasters Name: _____
Address: 103 Briggs Lane Address: _____
Cameron, WV 26033 _____

Notice is hereby given:
Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>532898.9</u>
County:	<u>Marshall</u>		Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>	
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____	
Watershed:	<u>Big Run</u>			

This Notice Shall Include:
Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator:	<u>Chesapeake Appalachia LLC</u>	Address:	<u>PO Box 1300, 179 Chesapeake Drive</u>
Telephone:	<u>304-517-1416</u>		<u>Jane Lew, WV 26378</u>
Email:	<u>danielle.southall@chk.com</u>	Facsimile:	<u>304-471-2497</u>

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Received
Office of Oil & Gas
08 09 2014
Received
Office of Oil & Gas
08 09 2014

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 Requirement: notice shall be provided no later than the filing date of permit application.
 Date of Notice: 08/29/2014 Date Permit Application Filed: 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
 RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
 (at the address listed in the records of the sheriff at the time of notice):

Name: Thelma Yeater
 Address: 82 Fish Ridge Rd.
Cameron, WV 26033

Name: _____
 Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>532898.9</u>
County: <u>Marshall</u>		Northing: <u>4401973.4</u>
District: <u>Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>	
Quadrangle: <u>Cameron</u>	Generally used farm name: _____	
Watershed: <u>Big Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Chesapeake Appalachia LLC
 Telephone: 304-517-1416
 Email: danielle.southall@chk.com

Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
 Facsimile: 304-471-2497

Oil and Gas Privacy Notice:

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

Received Received
 Office of Oil & Gas Office of

OCT 09 2014

OCT 09

01/08/2016

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Roger Jacob Briggs
Address: 531 Briggs Lane
Cameron, WV 26033

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>532898.9</u>
County:	<u>Marshall</u>		Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>	
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____	
Watershed:	<u>Big Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Chesapeake Appalachia LLC
Telephone: 304-517-1416
Email: danielle.southall@chk.com

Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Facsimile: 304-471-2497

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Received
Office of Oil & Gas
OCT 09 2014

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- | | |
|--|-------------------------------|
| <input checked="" type="checkbox"/> CERTIFIED MAIL | <input type="checkbox"/> HAND |
| RETURN RECEIPT REQUESTED | DELIVERY |

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>Preston & Heather L. Yeater</u>	Name: _____
Address: <u>3663 Fish Ridge Rd.</u>	Address: _____
<u>Cameron, WV 26033</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>532898.9</u>
County: <u>Marshall</u>	Northing: <u>4401973.4</u>
District: <u>Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: _____
Watershed: <u>Big Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Chesapeake Appalachia LLC
 Telephone: 304-517-1416
 Email: danielle.southall@chk.com

Address: PO Box 1300, 179 Chesapeake
Jane Lew, WV 26378
 Facsimile: 304-471-2497

Received
Office of Oil & Gas
 OCT 09 2014

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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 requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5
(1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Jack Briggs Name: _____
Address: 307 Briggs Lane Address: _____
Cameron, WV 26033 _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>532898.9</u>
County: <u>Marshall</u>		Northing: <u>4401973.4</u>
District: <u>Liberty</u>	Public Road Access: <u>Fish Ridge Road</u>	
Quadrangle: <u>Cameron</u>	Generally used farm name: _____	
Watershed: <u>Big Run</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: Chesapeake Appalachia LLC
Telephone: 304-517-1416
Email: danielle.southall@chk.com

Address: PO Box 1300, 179 Chesapeake Drive
Jane Lew, WV 26378
Facsimile: 304-471-2497

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Received
Office of Oil & Gas

OCT 09 2014

01/08/2016

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- | | |
|--|-------------------------------|
| <input checked="" type="checkbox"/> CERTIFIED MAIL | <input type="checkbox"/> HAND |
| RETURN RECEIPT REQUESTED | DELIVERY |

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: <u>James Rodney Briggs</u>	Name: _____
Address: <u>531 Briggs Lane</u>	Address: _____
<u>Cameron, WV 26033</u>	_____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>532898.9</u>
County: <u>Marshall</u>	Northing: <u>4401973.4</u>
District: <u>Liberly</u>	Public Road Access: <u>Fish Ridge Road</u>
Quadrangle: <u>Cameron</u>	Generally used farm name: _____
Watershed: <u>Big Run</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by W. Va. Code § 22-6A-10(b) to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator: <u>Chesapeake Appalachia LLC</u>	Address: <u>PO Box 1300, 179 Chesapeake Drive</u>
Telephone: <u>304-517-1416</u>	<u>Jane Lew, WV 26378</u>
Email: <u>danielle.southall@chk.com</u>	Facsimile: <u>304-471-2497</u>

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Received
Office of Oil & Gas

OCT 09 2014

WW-6A5
(1/12)

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: 08/29/2014 **Date Permit Application Filed:** 10/8/14

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL HAND
RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: John D. & Patty Briggs Name: _____
Address: 342 Briggs Lane Address: _____
Cameron, WV 26033

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Eastings:	<u>532898.9</u>
County:	<u>Marshall</u>		Northing:	<u>4401973.4</u>
District:	<u>Liberty</u>	Public Road Access:	<u>Fish Ridge Road</u>	
Quadrangle:	<u>Cameron</u>	Generally used farm name:	_____	
Watershed:	<u>Big Run</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 Operator:	<u>Chesapeake Appalachia LLC</u>	Address:	<u>PO Box 1300, 179 Chesapeake Drive</u>
Telephone:	<u>304-517-1416</u>		<u>Jane Lew, WV 26378</u>
Email:	<u>danielle.southall@chk.com</u>	Facsimile:	<u>304-471-2497</u>

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Received
Office of Oil & Gas

OCT 09 2014

01/08/2016

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Alex O'Neill, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	WVSPN NAD 27	Easting:	<u>1,686,271.990</u>
County:	<u>Marshall</u>		Northing:	<u>463,410.318</u>
District:	<u>Liberty</u>	Public Road Access:		
Quadrangle:	<u>CAMERON</u>	Generally used farm name:		<u>BRIGGS, GLADYS R.</u>
Watershed:	<u>Fish Creek</u>			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that CHESAPEAKE APPALACHIA, L.L.C. drills the well on WV North NAD27 coordinates of North 463,410.318, East 1,686,271.990.**

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p>	
	<p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOLIDATION COAL COMPANY</u></p> <p>By: <u>Alex O'Neill</u></p> <p>Its: <u>Coal, Oil & Gas Relations Manager</u></p>	
	<p>Signature: _____</p> <p>Date: <u>9/4/2014</u></p>	
	<p style="text-align: center;">Received</p> <p style="text-align: center;">Office of Oil & Gas</p> <p style="text-align: center;">OCT 09 2014</p>	

Oil and Gas Privacy Notice:

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WW-6AW
(1-12)

API NO. _____
OPERATOR WELL NO. Gladys Briggs MSH
6H
Well Pad Name: Gladys Briggs MSH

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.


Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ryan Arp, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	WVSPN NAD 27	Easting:	<u>1,686,271.990</u>
County:	<u>Marshall</u>		Northing:	<u>463,410.318</u>
District:	<u>Liberty</u>	Public Road Access:		<u>Fish Creek Road</u>
Quadrangle:	<u>CAMERON</u>	Generally used farm name:		_____
Watershed:	<u>Big Run</u>			

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that CHESAPEAKE APPALACHIA, L.L.C. drills the well on WV North NAD27 coordinates of North 463,410.318, East 1,686,271.990 and in accordance with the Joint Cooperation Agreement dated June 2, 2009.**

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input checked="" type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>Received</p> <p>Office of Oil & Gas</p> <p>OCT 09 2014</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>CONSOL Mining Company LLC</u></p> <p>By: <u>Ryan Arp</u></p> <p>Its: <u>Project Engineer</u></p> <p>Signature: </p> <p>Date: <u>9/4/2014</u></p>
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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Earl Ray Tomblin
Governor

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

March 26, 2015

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

Subject: DOH Permit for the Gladys Briggs Pad, Marshall County

Gladys Briggs MSH 6H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2012-0489 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Marshall County Route 94 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

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

Cc: Brittany Woody
Southwestern Energy
CH, OM, D-6
File

Received

Office of Oil and Gas
WV Dept. of Environmental Protection
01/08/2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
BAKER HUGHES	ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
			Water	007732-18-5
	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
			Polysaccharide Blend	N/A-021
	SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6
			Ethylene Glycol	000107-21-1
XLW-32	Crosslinker	Boric Acid	010043-35-3	
		Methanol (Methyl Alcohol)	000067-56-1	
FRAC TECH SERVICES	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
	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

Received
Office of Oil & Gas

OCT 09 2014

01/08/2016

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
WEATHERFORD	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
	WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
			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	
SCHLUMBERGER	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

Received
Office of Oil & Gas
OCT 09 2014

01/08/2016

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

Received
Office of Oil & Gas

OCT 09 2014

01/08/2016

BRIGGS MSH PAD
 RECLAMATION PLAN
 ASBUILT
 MARSHALL COUNTY, WV
 AUGUST 17, 2015

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- 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
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- MRD5.4 RECLAMATION PLAN
- MRD5.5 RECLAMATION PLAN
- MRD5.6 RECLAMATION PLAN
- MRD5.7 RECLAMATION PLAN
- MRD6.3 RECLAMATION DETAILS

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

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

<u>REVISION</u>	<u>DATE</u>
CHANGES ON SHEETS AS3.7, ASR4.1, & MRD5.7	10-16-2015

JW
 10/28/15

WEST VIRGINIA 811
 CALL BEFORE YOU DIG! Dial 811 or 800.245.4848
 www.WV811.com

COORDINATES:
ENTRANCE
 (NAD83)
 N. 771899
 E. 607187

BRIGGS PAD
 (NAD83)
 N. 767864
 E. 615884

CORNER OF PAD
 (NAD83)
 N. 767143
 E. 615970

ENCLOSING AREA
 (NAD83)
 N. 771728
 E. 608802

SWN $\frac{R^2}{A} \rightarrow V^+$
 Production Company™

Fisher
 10-16-2015
 Date:



677 W. Main St.
 Clarksburg, Wv 26301
 304-623-5851

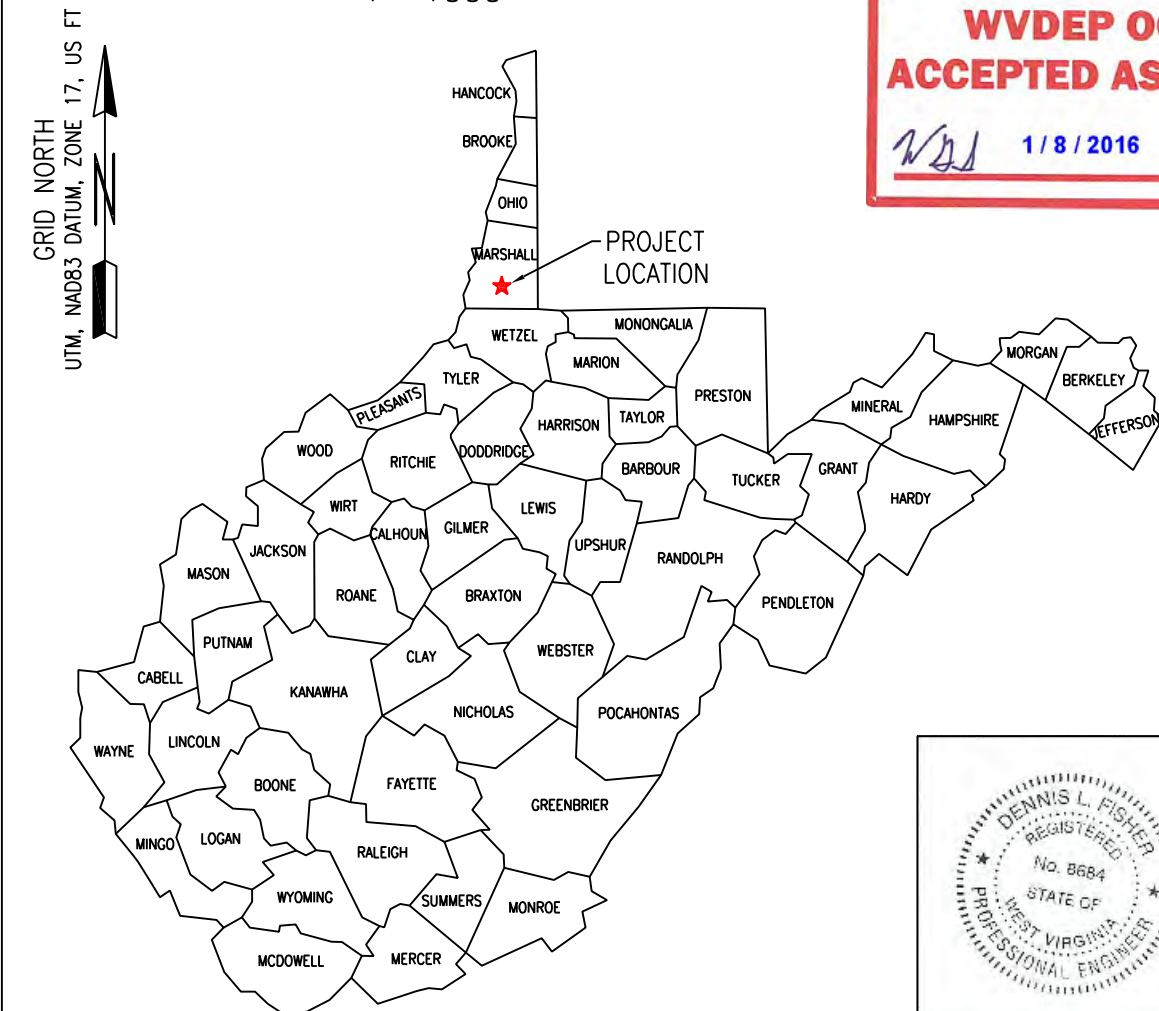
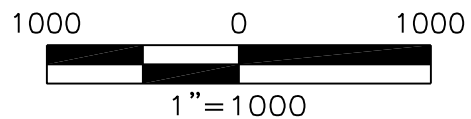
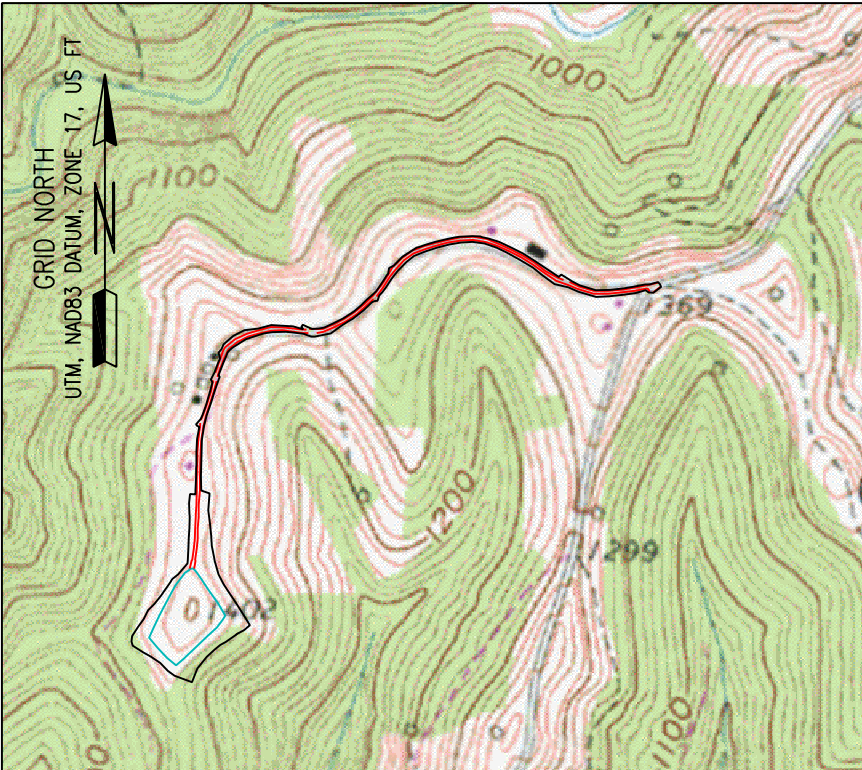
Jackson Surveying Inc.

TITLE SHEET

TS.1

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

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



**WVDEP OOG
ACCEPTED AS-BUILT**

WJ 1/8/2016

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

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

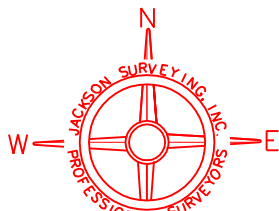
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- MRD6.3 RECLAMATION DETAILS
- MRD6.4 RECLAMATION DETAILS

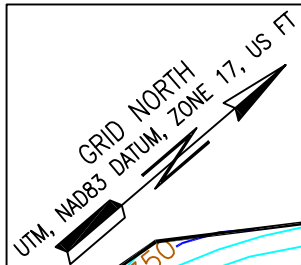
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CHANGES ON SHEETS AS3.7, ASR4.1, & MRD5.7	10-16-2015
CHANGES ON SHEETS AS3.7 & MRD5.7. ALSO ADDED SHEET MRD6.4	11-23-2015
CELLAR DETAIL AS3.7, MRD5.7, & MRD6.4	01-07-2016




Dennis L. Fisher
 Dennis L. Fisher RPE 8684: _____ Date: 01-07-2016

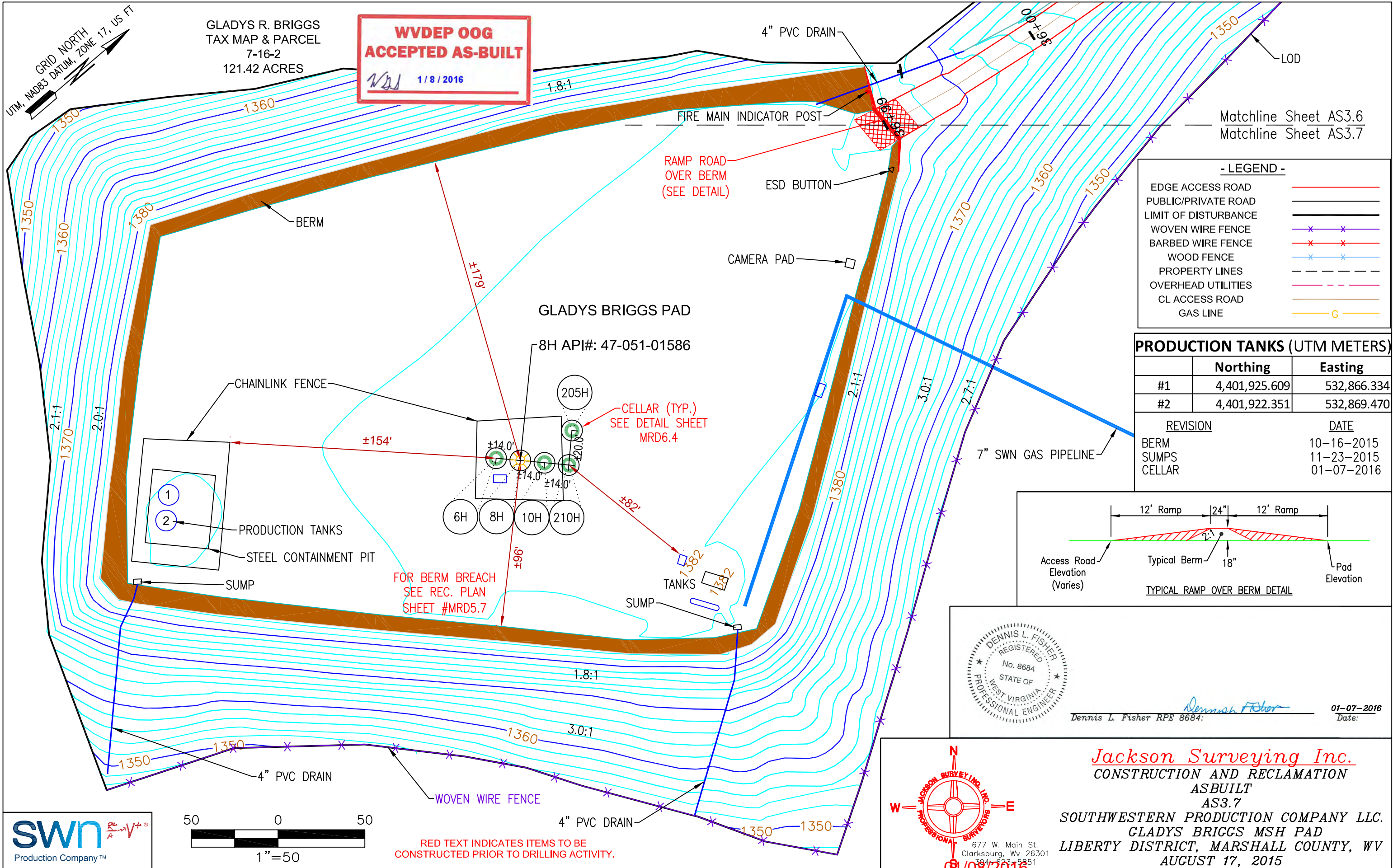

Jackson Surveying Inc.
 TITLE SHEET
 TS.1
 SOUTHWESTERN PRODUCTION COMPANY LLC.
 GLADYS BRIGGS MSH PAD
 LIBERTY DISTRICT, MARSHALL COUNTY, WV
 AUGUST 17, 2015

677 W. Main St.
Charleston, WV 25301
304-625-5857



GLADYS R. BRIGGS
TAX MAP & PARCEL
7-16-2
121.42 ACRES

**WVDEP OOG
ACCEPTED AS-BUILT**
WJ 1/8/2016



Matchline Sheet AS3.6
Matchline Sheet AS3.7

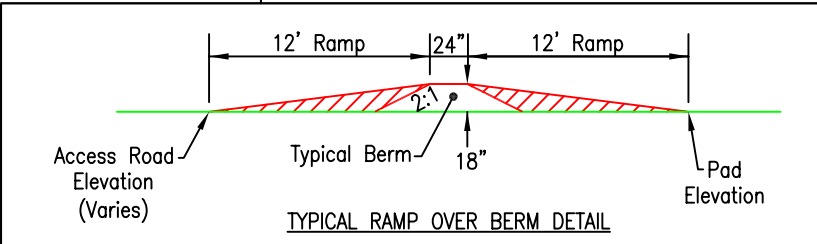
- LEGEND -

- EDGE ACCESS ROAD —
- PUBLIC/PRIVATE ROAD —
- LIMIT OF DISTURBANCE —
- WOVEN WIRE FENCE x x
- BARBED WIRE FENCE x x
- WOOD FENCE x x
- PROPERTY LINES - - -
- OVERHEAD UTILITIES - - -
- CL ACCESS ROAD —
- GAS LINE G

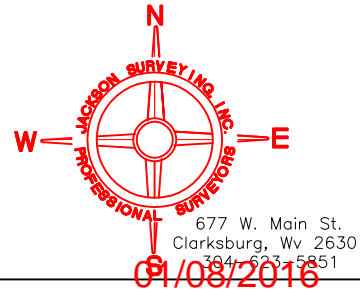
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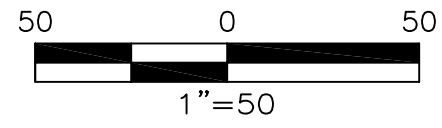
REVISION	DATE
BERM	10-16-2015
SUMPS	11-23-2015
CELLAR	01-07-2016



Dennis L. Fisher RPE 8684: *Dennis L. Fisher* 01-07-2016
Date:



Jackson Surveying Inc.
CONSTRUCTION AND RECLAMATION
ASBUILT
AS3.7
SOUTHWESTERN PRODUCTION COMPANY LLC.
GLADYS BRIGGS MSH PAD
LIBERTY DISTRICT, MARSHALL COUNTY, WV
AUGUST 17, 2015



RED TEXT INDICATES ITEMS TO BE
CONSTRUCTED PRIOR TO DRILLING ACTIVITY.