



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Wednesday, December 18, 2024
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit Modification Approval for MICHAEL SOUTHWORTH MSH⁺
47-051-02522-00-00

Extended lateral length

SWN PRODUCTION COMPANY, LLC

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

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

A blue ink signature of James A. Martin, written in a cursive style.

James A. Martin
Chief

Operator's Well Number: MICHAEL SOUTHWORTH MSH 210H
Farm Name: BARRY A. & KIMBERLY S. LITMAN
U.S. WELL NUMBER: 47-051-02522-00-00
Horizontal 6A New Drill
Date Modification Issued: 12/18/2024

Promoting a healthy environment.

12/20/2024

WW-6B
(04/15)

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API NO. 47-051 - 02522

OPERATOR WELL NO. Michael Southworth MSH 210H

Well Pad Name: Michael Southworth MSH Pad

WV Department of
Environmental Protection

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 051-Marshall 6-Sandhi 648-Valley Grove
Operator ID County District Quadrangle

2) Operator's Well Number: Michael Southworth MSH 210H Well Pad Name: Michael Southworth MSH Pad

3) Farm Name/Surface Owner: Barry A. & Kimberly S. Litman Public Road Access: Walnut Grove Road

4) Elevation, current ground: 1271' Elevation, proposed post-construction: 1271'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Target Formation- Marcellus, Down-Dip well to the South, Target Top TVD- 6527', Target Base TVD- 6579', Anticipated Thickness- 52', Associated Pressure- 4276

8) Proposed Total Vertical Depth: 6559'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23366'

11) Proposed Horizontal Leg Length: 12520.36'

12) Approximate Fresh Water Strata Depths: 632'

13) Method to Determine Fresh Water Depths: Nearby Water well (Edith Folmar)

14) Approximate Saltwater Depths: 1403' Salinity Profile on BW Edge

15) Approximate Coal Seam Depths: 743'

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: Ohio County Mine

Depth: 743'

Seam: Pittsburgh

Owner: Ohio County Coal Resources/ACNR Inc.

Strader Gower
12/06/2024

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#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	785'	785'	904 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2011'	2011'	771 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	23366'	23366'	Tail 4334sx/100' Inside intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.20/30% Excess
Fresh Water	13 3/8"	17.5"	0.330	1730	633	Class A	1.20/30% Excess
Coal	See	Surface	Casing				
Intermediate	9 5/8"	12 1/4"	0.352	3520	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500	Class A	1.19/10-15% Excess
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. In some instances, additional toe prep may be performed by pumping additional water in the toe of the well prior to perforating and pumping Stage 1 to ensure that the toe guns/toe sleeves are fully open prior to pumping stage 1. The well is produced through surface facilities consisting of high pressure production units, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.88

22) Area to be disturbed for well pad only, less access road (acres): 9.67

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

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*Note: Attach additional sheets as needed.

Southwestern Energy Company

Proposed Drilling Program

Well: MICHAEL SOUTHWORTH MSH 210H
 Field: PANHANDLE FIELD WET
 County: MARSHALL
 SHL (NAD83): 40.012753 Latitude -80.61480162 Longitude
 BHL (NAD83): 39.976900 Latitude -80.58903027 Longitude
 KB Elev: 1,298 ft MSL

Drilling Rig: SDC 41
 Formation: Marcellus Shale
 State: WV
 KB Height: 26 ft AGL
 GL Elev: 1,272 ft MSL



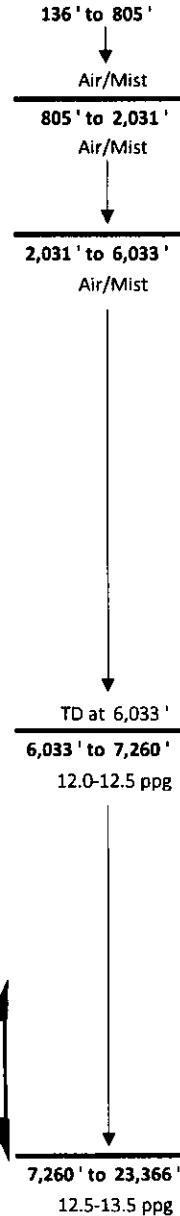
NO COAL VOID EXPECTED

PROD TOC @ 2,011' MD

TUBULAR DETAIL					
Casing String	Casing Size (in)	Weight (Min)	Grade (Min)	Planned Interval	
				From	To
Conductor	20	94.0 #	J-55	0'	136'
Surface/Coal	13.375	54.4 #	J-55	0'	785'
Intermediate	9.625	36.0 #	J-55	0'	2,011'
Production	5.5	20.0 #	P-110 HP	0'	23,366'

CEMENT DETAIL

	Sacks	Class	Density
Conductor	173	A	19.3
Surface	904	A	15.6
Intermediate	771	A	15.6
Production	4334	A	14.5-15.0



KOP at 6,033' MD

Freshwater Depth - 632' TVD
 Coal Depth - 734' TVD
 Saltwater Depth - 1,403' TVD
 TVD - 6,559'
 TMD - 23,366'

6,406' TVD Target Center

TD at 23,366' MD
 6,559' TVD

LP at 7,260' MD

SHL Onondaga 6,427' TVD

Onondaga 6,580' TVD

7,260' to 23,366'
 12.5-13.5 ppg

Created by: Dicky Hall on 12/03/2024

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12/20/2024

051-01991	HG ENERGY II APPALACHIA, LLC	Permit Issued	39.958418	-80.585478	20420	Point Pleasant
051-00657	WEIRTON STEEL DIVISION, NAT'L STEEL CORP.	Never Drilled	39.987943	-80.594328	N/A	N/A

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JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851



NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ✱ LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: MICHAEL SOUTHWORTH MSH	WELL # 210H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; SANDHILL	
SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN	USGS 7 1/2 QUADRANGLE MAP NAME WILEYVILLE, WV		

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Latitude: 40°02'30"

SURFACE HOLE 8,811'

Latitude: 40°00'00"

BOTTOM HOLE 1,493'

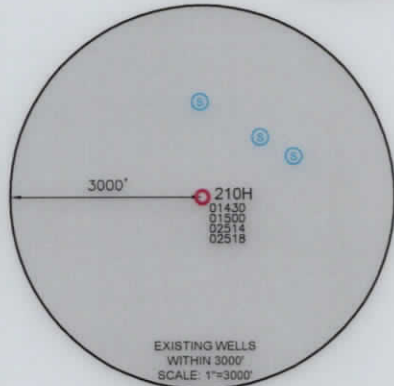
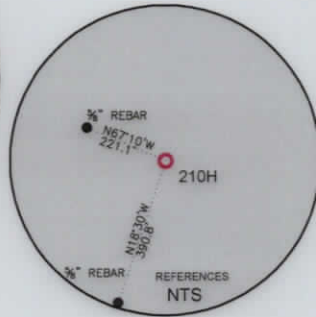
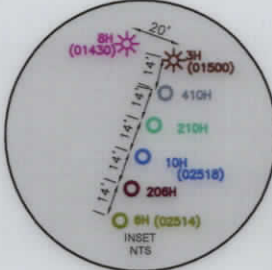
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Table with columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains survey data for lines L1 through L12 and L3 through L10.

Table with columns: SURFACE HOLE LOCATION (SHL), LANDING POINT (LPL), BOTTOM HOLE LOCATION (BHL). Contains UTM coordinates for each location.

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



Longitude: 80°35'00"
Longitude: 80°35'00"
SURFACE HOLE 10,533'
BOTTOM HOLE 8,616'

WELL RESTRICTIONS

- 1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- 1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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



2000 0 2000

GRAPHIC SCALE IN FEET

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

MICHAEL SOUTHWORTH MSH
OPERATOR'S WELL #: 210H
API WELL #: 47 STATE 051 COUNTY 02522 PERMIT

WELL TYPE: OIL [] WASTE DISPOSAL [] PRODUCTION [X] DEEP [] GAS [X] LIQUID INJECTION [] STORAGE [] SHALLOW [X]
WATERSHED: GRANDSTAFF RUN OF WHEELING CREEK (HUC-10) ELEVATION: 1271.0'
DISTRICT: SANDHILL COUNTY: MARSHALL QUADRANGLE: VALLEY GROVE, WV
SURFACE OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776
OIL & GAS ROYALTY OWNER: BARRY A. & KIMBERLY S. LITMAN ACREAGE: ±159.776
DRILL [X] DRILL DEEPER [] REDRILL [] FRACTURE OR STIMULATE [X] PLUG OFF OLD FORMATION [] PERFORATE NEW FORMATION []
CONVERT [] PLUG & ABANDON [] CLEAN OUT & REPLUG [] OTHER CHANGE [] (SPECIFY)
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,559 TVD 23,366 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

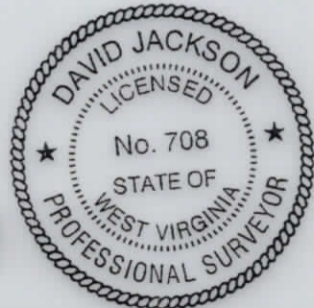
Table with columns: LEGEND, REVISIONS, DATE. Contains symbols for proposed surface hole, existing wellhead, landing point, water well, spring, surveyed boundary, drilling unit, lease boundary, proposed path.

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851



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*



12/20/2024

REVISIONS:	COMPANY:			
	OPERATOR'S		MICHAEL SOUTHWORTH MSH	
	WELL #:		210H	
	DISTRICT:	COUNTY:	STATE:	DATE: 11-26-2024
	SANDHILL	MARSHALL	WV	DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 2

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LITMAN BARRY A & KIMBERLY S (S)	12-2-10
2	LITMAN BARRY A (S)	12-2-10.2
3	REINEKE RICHARD S (S)	12-2-9
4	REINEKE RICHARD S (S)	12-2-9.2
5	TDL&G LLC (S)	12-2-8
6	TUBAUGH NORMA HUNTER ET AL (S)	12-2-5
7	TOTH JOHN J SR & ALICE J REVOCABLE TRUST (S)	12-8-1
8	TOTH JOHN J SR & ALICE - TRUST (S)	12-8-4
9	W VA DEPT OF HIGHWAYS (S)	MILLER HILL RD
10	CORNELL SALLY SEIBERT & ROBERT (S)	12-8-5
11	RICHEY RANDY ET UX (S)	12-8-35
12	TOLAND WILLIAM EUGENE ET AL (S)	12-8-33
13	TOLAND CARRIE M (S)	12-8-33.1
14	TOLAND MARGARET (S)	12-8-32
15	JOHNSON LONI M & JAMES A (S)	12-8-31.1
16	WINTERS BEVERLY DIANE (S)	12-8-31.2
17	WINTERS BEVERLY DIANE (S)	12-11-6
18	STORCH JOSEPH WILLIAM ET UX (S)	12-11-7
19	STORCH JOSEPH WILLIAM ET UX (S)	12-11-12
20	GRAY DONALD G - TOD & WYATT MATTHEW (S)	12-11-8
21	GRAY WYATT MATTHEW (S)	12-11-8.6
22	W VA DEPT OF HIGHWAYS (S)	CALDWELL HILL RD
23	SANDHILL CEMETERY TRUST (S)	12-11-10.2
24	KLAGES MARY ANN (S)	12-11-10
25	HILLBERRY GARRY L (S)	12-11-9
26	LOUGHERY JAMES P JR. & BROOK ROBIN M (S)	12-11-9.2

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	VELLENOWETH SCOTT U ET UX	12-2-1.1
B	BLATT THERESA L	12-2-23
C	BAIRD FAMILY TRUST	12-2-2
D	GREGORY JOHN W ET UX	12-2-9.1
E	MCFARLAND DANIEL W & VICKI L	12-2-24
F	MCFARLAND DANIEL W JR	12-2-4.1
G	HUNTER RODNEY J	12-3-14
H	HUNTER MARILYN DARLENE	12-3-14.2
I	MCFARLAND BRIAN MATTHEW	12-3-12.1
J	GANTZER GREGORY	12-3-12
K	PARKER PETER	12-2-6
L	GANTZER GREGORY	12-3-11.1
M	MCVICKER R G JR	12-3-11
N	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-11
O	TOTH JOHN J SR & ALICE J REVOCABLE TRUST	12-8-12
P	GODDARD THERESA M	12-8-9
Q	GODDARD THERESA M	12-8-8
R	SCHULTZ CHARLES E & CLAUDIA M - TOD	12-8-6
S	ALAMINSKI LUCINDA RUTH	12-8-31.3
T	GRAY ZANDE C	12-8-30
U	STORCH LOIS M	12-11-12.2
V	STORCH JOSEPH WILLIAM ET UX	12-11-13
W	M E CHURCH TRUSTEES	12-11-11
X	KLAGES RONALD N	12-11-10.3
Y	HAZLETT KELLI & JUDITH BURGESS	OUTSALE FROM 12-11-10
Z	HILLBERRY BRANDON	12-11-9.4
A2	HAZLETT KELLI	12-11-10.1
B2	KEYSER MARY ANN	12-11-10.4
C2	M E CHURCH	12-11-17
D2	ULLOM BRIAN KEITH & SARAH ANN	12-11-14.3
E2	STRAWN JENNIFER	12-11-14.2
F2	JUNKINS RONALD D JR ET AL	12-11-15
G2	THOMAS RICHARD LEE BARTON	12-11-16
H2	HILLBERRY PAUL E JR	12-11-9.3
I2	HOWARD JOYCE	12-11-9.1
J2	OHIO COUNTY COAL RESOURCES INC	12-11-8.8
K2	RAYMOND JOHN	12-11-8.9
L2	RUNKLE MICHELL LEE	12-11-8.7
M2	GRAY DONALD G ET UX - TOD	12-11-8.2
N2	RUNKLE MICHELL LEE	12-11-8.1
O2	GRAY WYATT MATTHEW	12-11-8.5
P2	TEMPLE TERRY L & BEVERLY J -TOD	12-11-8.3
Q2	TEMPLE TERRY L & BEVERLY J -TOD	12-11-8.4
R2	TEMPLE TERRY L & BEVERLY J -TOD	12-11-4
S2	TEMPLE DONALD LEE	12-11-4.1
T2	TOLAND SONDR A J & WILLIAM E	12-9-17
U2	TOLAND DAVID ET UX	12-8-33.2
V2	MERINAR CALVIN C - LIFE	12-9-18
W2	MERINAR CALVIN C - LIFE	12-9-16
X2	MERINAR CALVIN C - LIFE	12-8-34
Y2	RICHEY DUSTIN & FELICIA	12-8-35.1
Z2	MERINAR JAMES MARTIN ET UX	12-9-15.1
A3	MERINAR CALVIN C - LIFE	12-9-15
B3	TOTH JOHN J SR & ALICE TRUST	12-8-4.1
C3	PORTER CARLA S	12-9-13
D3	G F P CORP	12-2-7
E3	G F P CORP	12-2-12
F3	WV BRIGHTMONT LLC	12-2-14
G3	EDGE WILLIAM F JR - TOD ET AL	12-2-15
H3	EDGE WILLIAM F JR - TOD ET AL	12-2-16
I3	LITMAN JAMES M & LUCY A	12-2-16.1
J3	RADCLIFFE JOHN D & ANNA M	12-2-10.1

*Highlighted Parcels may be impacted during drilling.

12/20/2024

REVISIONS:	COMPANY:	 	
	OPERATOR'S	MICHAEL SOUTHWORTH MSH	DATE: 11-26-2024
	WELL #:	210H	DRAWN BY: N. MANO
	DISTRICT:	SANDHILL	SCALE: N/A
	COUNTY:	MARSHALL	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 3

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit "A"				

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

**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: Andrew M. Smith *Andrew M. Smith*
 Its: Landman

EXHIBIT "A"
Michael Southworth MSH 210H
Marshall County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN	
1	12-2-10	728963/005	Salvation Army	Chesapeake Appalachia, L.L.C.	18.00%	723/10	0.00%	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
		725102/001	Robert B. Elliott, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	12.50%	676/179	0.00%
				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		728963/001	Mable L. Riggle, a widow	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	18.00%	722/602	0.00%
				Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		25/582	
				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
				Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		728963/003	Gregory Williams, single man	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	18.00%	723/376	0.00%
				Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
				Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		728963/002	Elm Grove United Methodist Church	Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	18.00%	722/606	0.00%
				Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC			33/110				
Statoil USA Onshore Properties Inc.	SWN Production Company, LLC			33/424				

EXHIBIT "A"
Michael Southworth MSH 210H
Marshall County, West Virginia

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator

Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN	
1 (cont.)		728963/004	Dolores E. Williams, divorced and not remarried	Chesapeake Appalachia, L.L.C.	18.00%	723/382	0.00%	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
2	12-2-10.2	728963/005	Salvation Army	Chesapeake Appalachia, L.L.C.	18.00%	723/10	0.00%	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
	725102/001		Robert B. Elliott, a married man dealing in his sole and separate property Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	12.50%	676/179	0.00%	
				SWN Production Company, LLC		33/110		
	728963/001		Mable L. Riggle, a widow	Chesapeake Appalachia, L.L.C.	18.00%	722/602	0.00%	
				Chesapeake Appalachia, L.L.C.		Statoil USA Onshore Properties Inc.		25/582
				Chesapeake Appalachia, L.L.C.		SWN Production Company, LLC		33/110
				Statoil USA Onshore Properties Inc.		SWN Production Company, LLC		33/424
	728963/003		Gregory Williams, single man	Chesapeake Appalachia, L.L.C.	18.00%	723/376	0.00%	
				Chesapeake Appalachia, L.L.C.		Statoil USA Onshore Properties Inc.		27/166
Chesapeake Appalachia, L.L.C.				SWN Production Company, LLC		33/110		
Statoil USA Onshore Properties Inc.				SWN Production Company, LLC		33/424		

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Michael Southworth MSH 210H

Marshall County, West Virginia

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
2 (cont.)	728963/002		Elm Grove United Methodist Church	Chesapeake Appalachia, L.L.C.	18.00%	722/606	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
	728963/004		Dolores E. Williams, divorced and not remarried	Chesapeake Appalachia, L.L.C.	18.00%	723/382	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		27/166	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
3	12-2-9	724960/000	Richard S. Reineke and Charlene R. Reineke, his wife	Chesapeake Appalachia, L.L.C.	12.50%	676/341	0.00%
			Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties Inc.		21/565	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
4	12-2-9.2	724960/000	Richard S. Reineke and Charlene R. Reineke, his wife	Chesapeake Appalachia, L.L.C.	12.50%	676/341	0.00%
			Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties Inc.		21/565	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	

EXHIBIT "A"
Michael Southworth MSH 210H
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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
5	12-2-8	730186/000	John W. Gregory and Donna R. Gregory, his wife	Great Lakes Energy Partners, L.L.C.	12.50%	653/367	0.00%
			Great Lakes Energy Partners, L.L.C.	Range Resources - Appalachia, LLC		19/443	
			Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.		23/368	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		24/363	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
6	12-2-5	724871/000	Norma Tubaugh, wife, Dawnisa Tubaugh, daughter, Clarence W. Tubaugh, son, and Gary W. Glessner, grandson	Chesapeake Appalachia, L.L.C.	12.50%	673/538	0.00%
			Chesapeake Appalachia, L.L.C.	Statoilhydro USA Onshore Properties Inc.		675/279	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
7	12-8-1	Pending	Sandhill Land Ventures, LP	SWN Production Company, LLC	18.00%	1178/52	0.00%
8	12-8-4	727778/000	John Joseph Toth, Sr., a/k/a John J. Toth Sr. and Alice Joann Toth, husband and wife	Chesapeake Appalachia, L.L.C.	18.75%	710/390	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
9	Miller Hill Road	747371/000	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	955/69	0.00%
10	12-8-5	732584/000	Sally Seibert Cornell and Robert Cornell, her husband	NPAR, LLC	18.75%	700/464	0.00%
			NPAR, LLC	Chesapeake Appalachia, L.L.C. and Statoil USA Onshore Properties Inc.		25/637	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	

EXHIBIT "A"

Michael Southworth MSH 210H
Marshall County, West Virginia

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
11	12-8-35	732585/000	Larry R. Richey, also known as Randy Richey, and Helen E. Richey, his wife	TriEnergy Holdings, LLC	14.00%	691/90	0.00%
			TriEnergy Holdings, LLC	NPAR, LLC		23/74	
			NPAR, LLC	Chesapeake Appalachia, L.L.C.		25/637	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
12	12-8-33	Pending	Linda K. Canann, a widow	TH Exploration, LLC	15.00%	1129/413	0.00%
			TH Exploration, LLC	SWN Production Company, LLC		51/595	
		Pending	David E. Toland, Jr., a single man	TH Exploration, LLC	15.00%	1137/653	0.00%
			TH Exploration, LLC	SWN Production Company, LLC		51/595	
		748871/004	Bonnie Dougherty, a single woman	SWN Production Company, LLC	18.00%	1025/187	0.00%
		748871/007	Brenda Midcap F/K/A Brenda Cain, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1035/497	0.00%
		748871/006	Carrie Margaret Toland, a widow	SWN Production Company, LLC	18.00%	1029/97	0.00%
		748871/005	Charles Seamon, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1025/641	0.00%
		Pending	Darla Kroes, married, dealing in her separate property	SWN Production Company, LLC	18.00%	1165/590	0.00%
		748871/008	Donald J. Toland, a married man dealing in his sole and separate property	SWN Production Company, LLC	18.00%	1073/38	0.00%
		748871/003	Edith Debolt, a married woman dealing in her sole and separate property	SWN Production Company, LLC	18.00%	1024/506	0.00%
		Pending	Family Tree Corporation	SWN Production Company, LLC	18.00%	1177/87	0.00%
		Pending	Master Mineral Holdings I, LP, a Texas Limited Partnership	SWN Production Company, LLC	18.00%	1188/166	0.00%
748871/002	Paul Dougherty, a single man	SWN Production Company, LLC	18.00%	1024/501	0.00%		

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Michael Southworth MSH 210H
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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
12 (cont.)		733623/001	Ronald Toland, a single man	AB Resources LLC	16.00%	764/621	0.00%
			AB Resources LLC	Chevron U.S.A., Inc.		29/277	
			Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494	
			Chevron U.S.A., Inc.	Chesapeake Appalachia, L.L.C.		30/532	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
	Pending		Sandra Ferry	SWN Production Company, LLC	18.00%	1165/595	0.00%
	Pending		Sandy Diane Maddox and Randall Maddox, wife and husband	SWN Production Company, LLC	18.00%	1165/585	0.00%
		748871/001	Shirley Dougherty, a single woman	SWN Production Company, LLC	18.00%	1024/511	0.00%
	Pending		The Jeff Toland Trust, U/A dated November 21, 2022	SWN Production Company, LLC	18.00%	1166/280	0.00%
		733624/001	Linda Jako and John Jako, her husband	AB Resources LLC	16.00%	764/625	0.00%
			AB Resources LLC	Chevron U.S.A., Inc.		29/277	
			Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494	
			Chevron U.S.A., Inc.	Chesapeake Appalachia, L.L.C.		30/532	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
		733612/001	Joseph C. Pierce, Jr., and Marie A. Pierce, his wife	Chevron U.S.A., Inc.	16.00%	780/262	0.00%
			Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494	

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN	
12 (cont.)			Chevron U.S.A., Inc.	Chesapeake Appalachia, L.L.C.		30/532		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
		733608/001	Carrie Margaret Toland, a widow	Chevron U.S.A., Inc.	16.00%	781/490	0.00%	
			Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494		
			Chevron U.S.A., Inc.	Chesapeake Appalachia, L.L.C.		30/532		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
		733618/001	William E. Toland and Sondra J. Toland, his wife	Chevron U.S.A., Inc.	16.00%	787/237	0.00%	
			Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494		
			Chevron U.S.A., Inc.	Chesapeake Appalachia, L.L.C.		30/532		
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424		
	13	12-8-33.1	733730/000	Carrie Margaret Toland, a widow	Chevron U.S.A., Inc.	16.00%	781/495	0.00%
				Chevron U.S.A., Inc.	Statoil USA Onshore Properties Inc.		30/494	
Chevron U.S.A., Inc.				Chesapeake Appalachia, L.L.C.		30/532		
Chesapeake Appalachia, L.L.C.				SWN Production Company, LLC		33/110		
Statoil USA Onshore Properties Inc.				SWN Production Company, LLC		33/424		

EXHIBIT "A"
Michael Southworth MSH 210H
Marshall County, West Virginia

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
14	12-8-32	751318/004	Todd Taylor, single	American Petroleum Partners Operating, LLC	17.00%	1053/504	0.00%
			High Road Resources, LLC, f/k/a American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263	
		751318/009	Tammi Adams, single	SWN Production Company, LLC	18.00%	1168/282	0.00%
		785902/001	Lori Taylor Slane, f/k/a, Lori Albers, married, dealing in her separate property	SWN Production Company, LLC	18.00%	1168/276	0.00%
		Pending	Edward Taylor, married, dealing in his separate property	SWN Production Company, LLC	18.00%	1168/613	0.00%
		751318/005	Master Mineral Holding I, L.P., a Texas Limited Partnership	American Petroleum Partners Operating, LLC	18.00%	912/109	0.00%
			American Petroleum Partners Operating, LLC	SWN Production Company, LLC		51/321	
		751318/001	Darrell D. Taylor and Beverly Sue Taylor, husband and wife	American Petroleum Partners Operating, LLC	17.00%	926/121	0.00%
			American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263	
		751318/002	George Daniel Taylor and Suzette L. Taylor, husband and wife	American Petroleum Partners Operating, LLC	17.00%	927/327	0.00%
			American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263	
		751318/003	Georganne L. Taylor, a widow	American Petroleum Partners Operating, LLC	17.00%	927/343	0.00%
	American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263			
751318/007	James Randall Taylor, Jr., a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	17.00%	976/495	0.00%		
	American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263			
751318/008	Milissa Taylor, single	American Petroleum Partners Operating, LLC	17.00%	978/612	0.00%		
	American Petroleum Partners Operating, LLC	SWN Production Company, LLC		48/263			
15	12-8-31.1	745245/000	Shelley Klamut f/k/a Shelley Edge and f/k/a Shelly Edge and Nicholas P. Klamut, her husband	SWN Production Company, LLC	18.00%	875/469	0.00%

EXHIBIT "A"

Michael Southworth MSH 210H
Marshall County, West Virginia

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
16	12-8-31.2	750019/000	Beverly Diane Winters American Petroleum Partners Operating, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	910/27 45/381	0.00%
17	12-11-6	750019/000	Beverly Diane Winters American Petroleum Partners Operating, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	910/27 45/381	0.00%
18	12-11-7	Pending	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	1183/166	0.00%
19	12-11-12	Pending	Golden Eagle Resources II, LLC	SWN Production Company, LLC	18.00%	1183/166	0.00%
20	12-11-8	785763/001 750012/000	Wyatt Matthew Gray, single Donald G. Gray, a married man dealing in his sole and separate property American Petroleum Partners Operating, LLC	SWN Production Company, LLC American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00% 19.00%	1160/646 984/376 45/381	0.00% 0.00%
21	12-11-8.6	751297/001	Linda K. Gray, a widow, unremarried High Road Resources, LLC, f/k/a American Petroleum Partners Operating, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	914/401 48/263	0.00%
22	Caldwell Hill Road	Pending	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	20.00%	1187/287	0.00%
23	12-11-10.2	751255/000	The Sand Hill Cemetery Trustees and Trustees of the Sand Hill Methodist Church High Road Resources, LLC, f/k/a American Petroleum Partners Operating, LLC	American Petroleum Partners Operating, LLC SWN Production Company, LLC	18.00%	920/102 1020/35 48/263	0.00%
24	12-11-10	751351/000	APP Minerals LLC High Road Resources, LLC, f/k/a American Petroleum Partners Operating, LLC EQT TGH Exploration, LLC f/k/a TH Exploration, LLC	American Petroleum Partners Operating, LLC TH Exploration, LLC SWN Production Company, LLC	19.00%	1091/443 49/249 1202/119	0.00%

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Tract #	Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased by SWN
25	12-11-9	Pending	Joyce Howard, married, dealing in her separate property	SWN Production Company, LLC	18.00%	1162/117	0.00%
		Pending	Garry L. Hillberry, married, dealing in his separate property	SWN Production Company, LLC	18.00%	1162/123	0.00%
26	12-11-9.2	Pending	Pauline P. Thomas	SWN Production Company, LLC	18.00%	1173/7	0.00%
		Pending	Joshua Hillberry	SWN Production Company, LLC	18.00%	1180/124	0.00%
		Pending	Garry L. Hillberry, married, dealing in his separate property	SWN Production Company, LLC	18.00%	1163/208	0.00%
D	12-2-9.1	724960/000	John W. Gregory & Donna R. Gregory, his wife	Chesapeake Appalachia, L.L.C.	16.00%	695/327	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		23/479	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
H2	12-11-9.3	Pending	Marie A. Hillberry, a widow	SWN Production Company, LLC	18.00%	1180/130	0.00%

*Potentially Impacted Parcels - Parcels that may be impacted during drilling.

End of Exhibit "A"



SWN Production Company, LLC
1300 Fort Pierpont Dr, Ste 201
Morgantown, WV 26508
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

December 4, 2024

Mr. Charles Brewer
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed New Well: Michael Southworth MSH 210H in Marshall County, West Virginia, Drilling under Walnut Grove Road, Miller Hill Road, and Caldwell Hill Road.

Dear Mr. Brewer:

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 Walnut Grove Road, Miller Hill Road, and Caldwell Hill 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,

Andrew M. Smith, RPL
Landman
SWN Production Company, LLC

The Right People doing the Right Things,
wisely investing the cash flow from our
underlying assets will create Value+®

12/20/2024