

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, February 12, 2025 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 206 H

47-051-02521-00-00

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.

James A. Martin Chief

Operator's Well Number: MICHAEL SOUTHWORTH MSH 206H

Farm Name: BARRY A. & KIMBERLY S. LITMAN

U.S. WELL NUMBER: 47-051-02521-00-00

Horizontal 6A New Drill Date Modification Issued: 2/12/2025

Promoting a healthy environment.

API NO. 47-051		
OPERATOR WELL	NO.	Michael Southworth MSH 206H
Well Pad Name:	Michael	Southworth MSH Pad

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

1) Well Operator: SWN Produ	ction Co., LLC	494512924	051-Marshal	6-Sandhi	648-Valley Grove	
		Operator ID	County	District	Quadrangle	
2) Operator's Well Number: Mich	hael Southworth MS	SH 206H Well Pad	Name: Micha	el Southw	orth MSH Pad	
3) Farm Name/Surface Owner:	Barry A. & Kimberly S.	Litman Public Road	d Access: Wal	nut Grove	Road	
4) Elevation, current ground:	1271' Ele	evation, proposed p	post-construction	on: 1271'		
5) Well Type (a) Gas X Other	Oil	Unde	erground Storag	e		
(b)If Gas Sha	llow X	Deep			CK#0001080	251
Hor	izontal X				CK\$ 7,500.0	10
6) Existing Pad: Yes or No Yes						
 Proposed Target Formation(s) Target Formation-Marcellus, Down-Dip well 	, Depth(s), Antic to the South, Target Top T	ipated Thickness a TVD- 6501', Target Base TVI	nd Expected Pr D- 6553', Anticipated T	'essure(s): hickness- 52', As	sociated Pressure- 4260	
8) Proposed Total Vertical Deptl	1: 6533'					
9) Formation at Total Vertical D		1		RECEIV		
10) Proposed Total Measured Do	epth: 20772'			111100		
11) Proposed Horizontal Leg Le	ngth: 10,406.85	5'		WV Departr		
12) Approximate Fresh Water St	rata Depths:	632'		Environmental		
13) Method to Determine Fresh	Water Depths:	Nearby water well	(Edith Folma	r)		
14) Approximate Saltwater Dept						
15) Approximate Coal Seam De	pths: 734'					
16) Approximate Depth to Possi	ble Void (coal m	ine, karst, other):	None that we	are aware	of.	Na.
17) Does Proposed well location directly overlying or adjacent to		ms Yes	No	X		e)
(a) If Yes, provide Mine Info:	Name: Ohio	County Coal Min	е			•
	Depth: 743'					20
	Seam: Pittsl	ourgh			5	e:
	Owner: Ohio	County Coal Res	sources/ACNF	lnc.		•a

Strader Gower
12/06/2024

API	NO.	47-	051
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OPERATOR WELL NO. Michael Southworth MSH 206H

Well Pad Name: Michael Southworth MSH Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	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#	2013'	2013'	771 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	20772'	20772'	Tail 3904sxi 100' Inside Intermediate
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement <u>Yield</u> (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					OHOTOLIN		
	•	· · · · · · · · · · · · · · · · · · ·			Office of Oil and	Gall	

JAN 3 0 2025

PACKERS

WV Department of Environmental Protection

Kind:		
Sizes:		
Depths Set:		

Strader Gower 12/06/2024

WW-6B
(10/14)

API NO. 47- 051 OPERATOR WELL NO. Michael Southworth MSH 206H

Well Pad Name: Michael Southworth MSH Pad

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

AECCIVED

Office of Ou and Gas

See Attachment ***

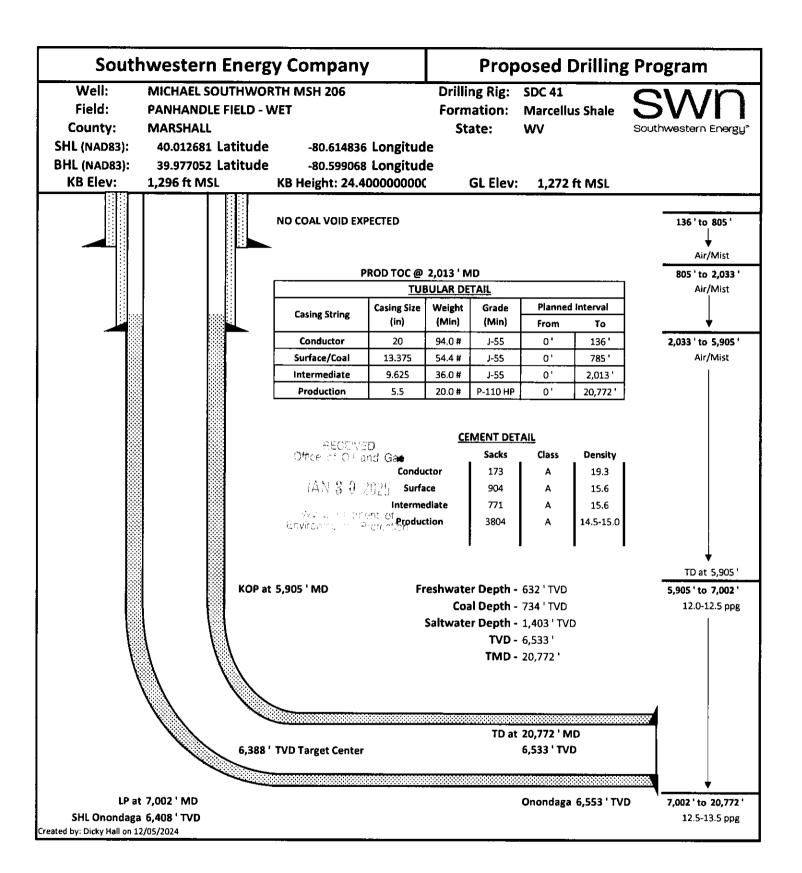
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25) Proposed borehole conditioning procedures:

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

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



Strader Gower

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones Not Perforated
051-00836	Alliance Petroleum Co. LLC	Plugged	39.981795	-80.605738	2870'	Unknown	Unknown

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SWN Production Company, LLC

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

February 10, 2025

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 206H in Marshall County, West Virginia, Drilling under 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 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,

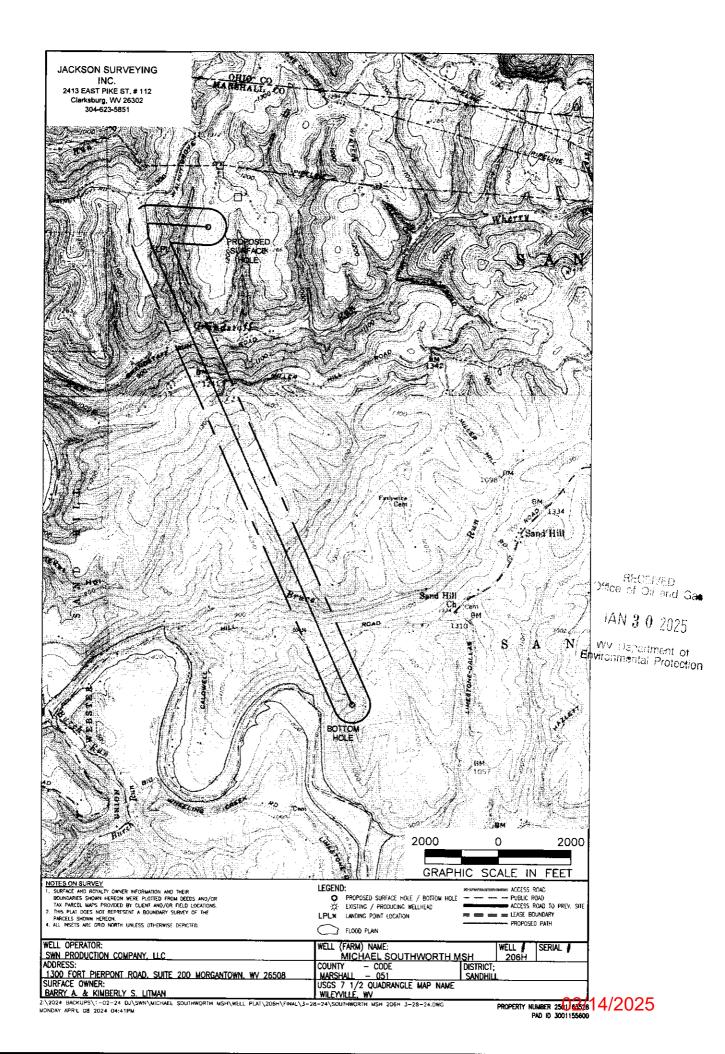
Andrew M. Smith

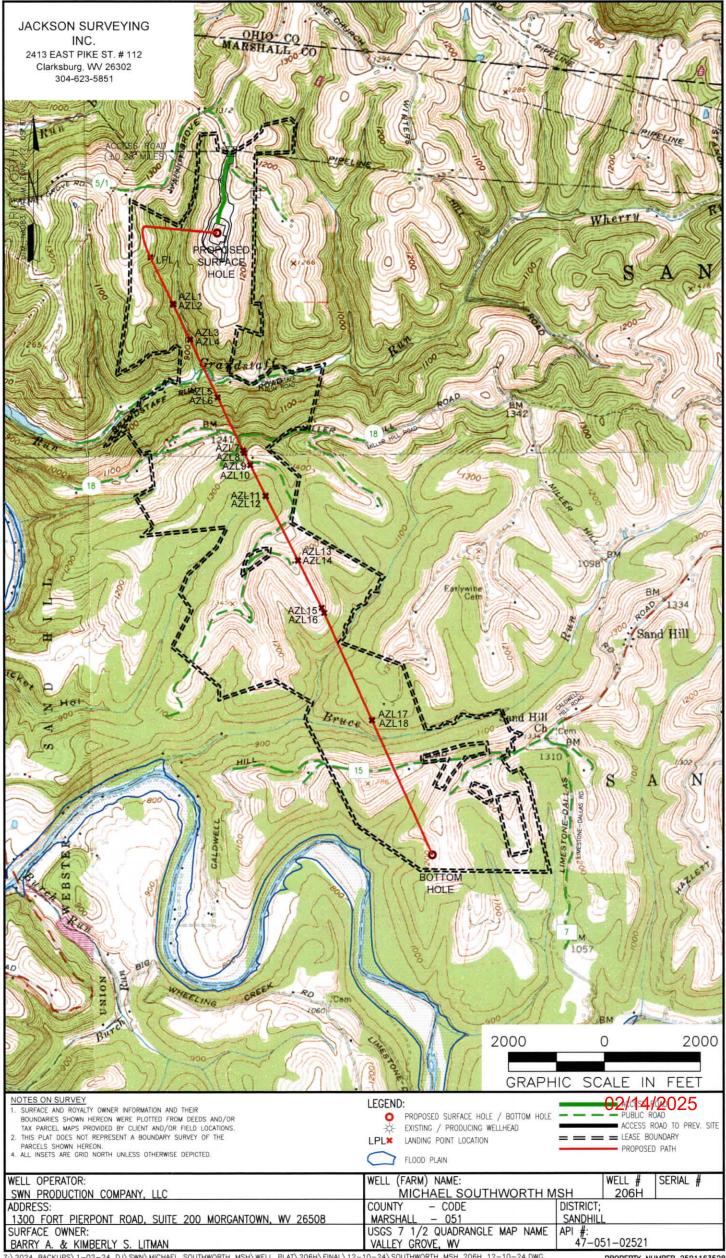
Landman

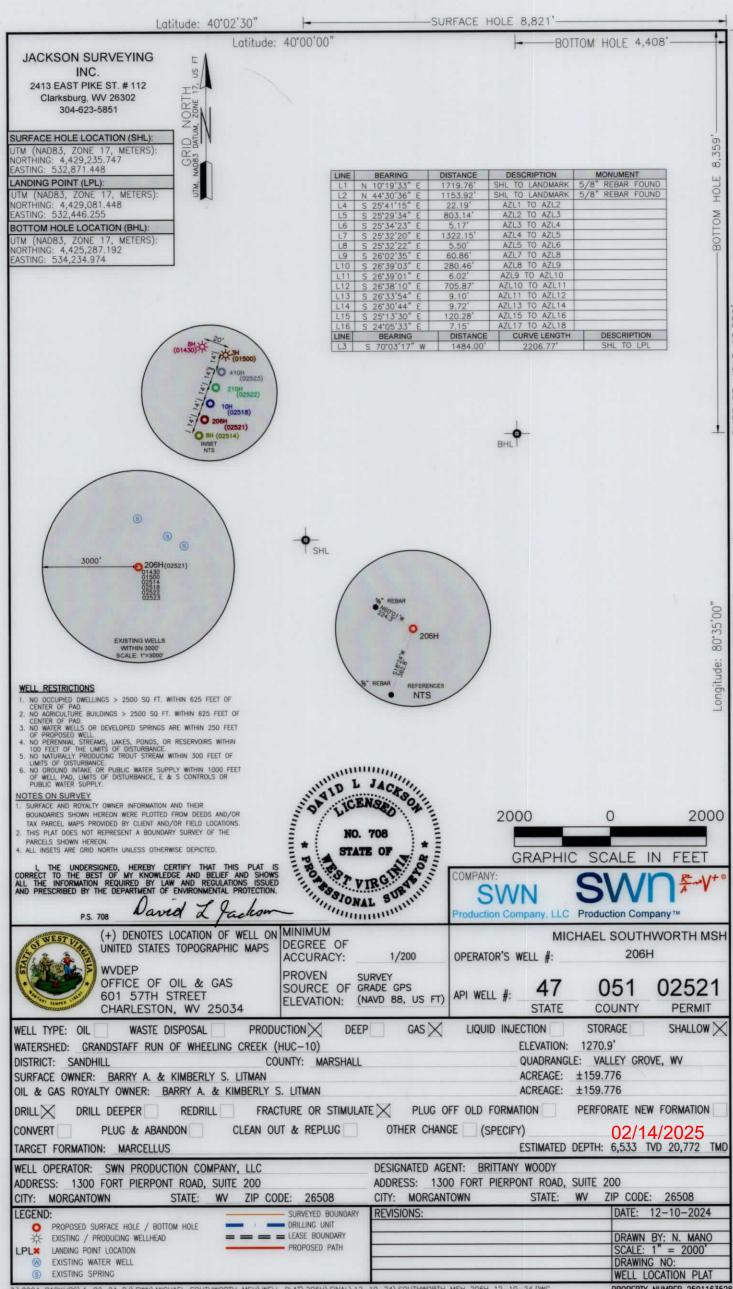
SWN Production Company, LLC

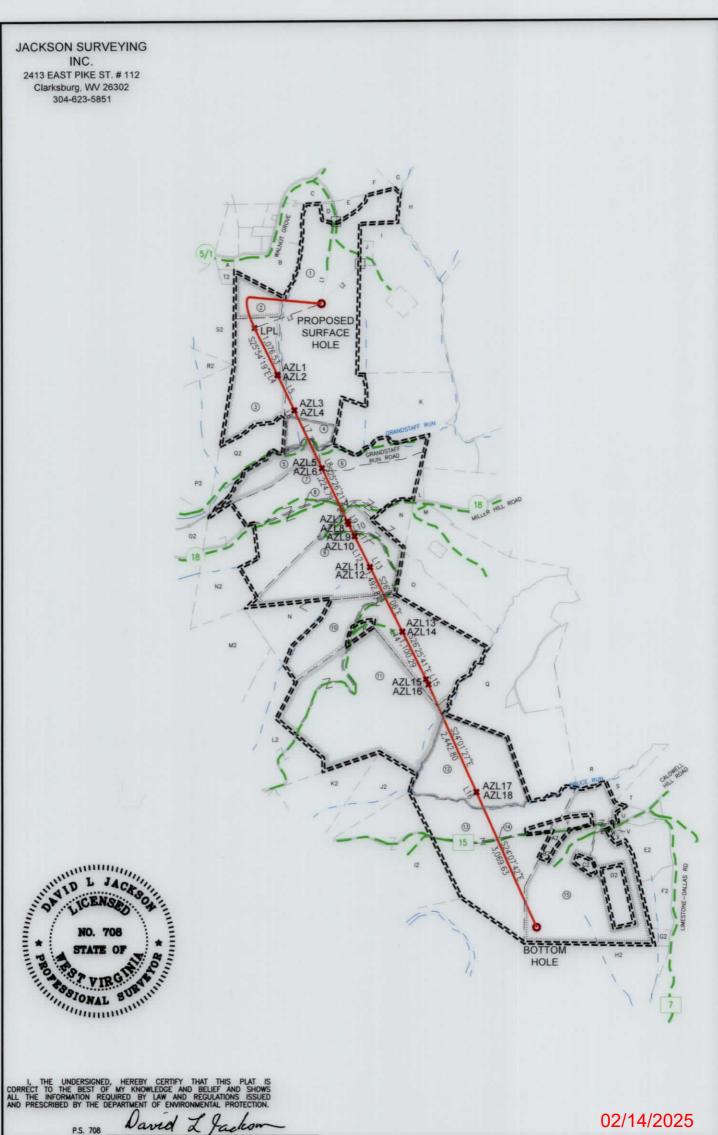
anh M. Suitt

R2 wV+°









REVISIONS:

| COMPANY: | SWN | Production Company. LLC | Production Company™

| OPERATOR'S MICHAEL SOUTHWORTH MSH | API #: 47-051-02521 | DRAWN BY: N. MANO | DISTRICT: SANDHILL | COUNTY: MARSHALL | STATE: WELL LOCATION PLAT 2

JACKSON SURVEYING

INC.

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

NOTES ON SURVEY

- 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.
- HIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN
- HEREON.
 4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

SURFACE HOLE LOCATION (SHL):	AZIMUTH POINT LOCATION-5 (AZL5):			
GEOGRAPHIC (NAD83): LATITUDE: 40.012681* LONGITUDE: -80.614836*	GEOGRAPHIC (NAD83): LATITUDE: 40.003297* LONGITUDE: -80.614878*			
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,584.280 EASTING: 1,748,262.410	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,528,167.110 EASTING: 1,748,265.270			
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,235.747 EASTING: 532,871.448	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,194.192 EASTING: 532,872.320			
TURNING POINT LOCATION-1 (TPL1):	AZIMUTH POINT LOCATION-6 (AZL6):	1		
GEOGRAPHIC (NAD83): LATITUDE: 40.013081* LONGITUDE: -80.620160*	GEOGRAPHIC (NAD83): LATITUDE: 40.003284* LONGITUDE: -80.614870*			
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,531,723.330 EASTING: 1,746,771.160	UTM (NAD83, ZONE 17, FEET): NORTHING: 14,528,162.150 EASTING: 1,748,267.640			
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,429,278.130 EASTING: 532,416.914	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,192.680 EASTING: 532,873.042			
LANDING POINT LOCATION (LPL):	AZIMUTH POINT LOCATION-7 (AZL7):	1		
GEOGRAPHIC (NAD83): LATITUDE: 40.011307* LONGITUDE: -80.619826*	GEOGRAPHIC (NAD83): LATITUDE: 40.000240' LONGITUDE: -80.613009'	CLL		
UTM (NAD83, ZONE 17, FEET):	UTM (NAD83, ZONE 17, FEET):	1		





AZIMUTH POINT LOCATION-12 (AZL12) GEOGRAPHIC (NAD83): LATITUDE: 39.997624' LONGITUDE: -80.611323' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,526,105.430 EASTING: 1,749,269.940 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,565.790 EASTING: 533,178.544 UTM (NAD83, ZONE 17, FEET):
NORTHING: 14,527,056.110
EASTING: 1,748,793.750
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,427,855.558
EASTING: 533,033.401 IORTHING: 14,531,078.050 ASTING: 1,746,867.420 UTM (NAD83, ZONE 17, M NORTHING: 4,429,081.448 EASTING: 532,446.255 AZIMUTH POINT LOCATION-8 (AZL8): AZIMUTH POINT LOCATION-13 (AZL13) AZIMUTH POINT LOCATION-1 (AZL1): AZIMOTH POINT LOCATION-1 (AZE GEOGRAPHIC (NAD83): LATITUDE: 40.008643' LONGITUDE: -80.618161' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,530,109.690 EASTING: 1,747,337.740 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,786.291 EASTING: 532,589.608 GEOGRAPHIC (NAD83): LATITUDE: 40.000089° LONGITUDE: -80.612914° UTM (NAD83, ZONE 17, FEET): NORTHING: 14,527,001.430 EASTING: 1,748,820.470 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,838.892 EASTING: 533,041.545 AZIMOTH FOR AT MADRA 3:

LATITUDE: 39.993953'

LONGITUDE: -80.608957'

UTM (NAD83, ZONE 17, FEET):

NORTHING: 14,524,771.700

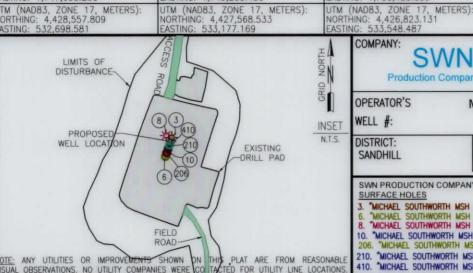
EASTING: 1,749,938.350

UTM (NAD83, ZONE 17, METERS):

NORTHING: 4,427,159.268

EASTING: 533,382.276 AZIMUTH POINT LOCATION-2 (AZL2) AZIMUTH POINT LOCATION-9 (AZL9):

AZIMUTH POINT LOCATION-14 (AZL14) AZIMUTH POINT LOCATION-17 (AZL17) AZIMUTH POINT LOCATION-2 (AZEA
GEOGRAPHIC (NAD83):
LATITUDE: 40.008588'
LONGITUDE: -80.618127'
UTM (NAD83, ZONE 17, FEET):
NORTHING: 14,530,089.690
EASTING: 1,747,347.360
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,428,780.195
EASTING: 532,592.541 AZIMOTH POINT LOCATION-9 (AZES GEOGRAPHIC (NAD83): LATITUDE: 39.999400' LONGITUDE: -80.612469' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,526,750.770 EASTING: 1,748,946.270 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,427,762.490 EASTING: 533,079.889 GEOGRAPHIC (NAD83): LATITUDE: 39.984779' LONGITUDE: -80.603512 GEOGRAPHIC (NAD83): LATITUDE: 39.993929° LONGITUDE: -80.608942 LONGITUDE: -80.5003.2 UTM (NAD83, ZONE 17, FE NORTHING: 14,524,763.000 EASTING: 1,749,942.690 UTM (NAD83, ZONE 17, FEET): NORTHING: 14,521,437.700 EASTING: 1,751,478.180 UTM (NAD83, ZONE 17, METERS) NORTHING: 4,427,156.617 EASTING: 533,383.599 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,143.063 EASTING: 533,851.617 AZIMUTH POINT LOCATION-15 (AZL15) AZIMUTH POINT LOCATION-18 (AZL18) AZIMUTH POINT LOCATION-3 (AZL3): AZIMUTH POINT LOCATION-10 (AZL10) AZIMUTH POINT LOCATION-15 (AZI GEOGRAPHIC (NAD83): LATITUDE: 39.991217' LONGITUDE: -80.607209' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,523,777.700 EASTING: 1,750,432.400 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,856.297 EASTING: 533,532.863 AZIMUTH POINT LOCATION-18 (ACCOUNTS OF THE POINT LOCATION OF THE POINT LONGITUDE: 39.984761'
LONGITUDE: -80.603502'
UTM (NAD83, ZONE 17, FEET):
NORTHING: 14,521,431.170
EASTING: 1,751,481.100
UTM (NAD83, ZONE 17, METER:
NORTHING: 4,426,141.073
EASTING: 533,852.507 GEOGRAPHIC (NAD83): LATITUDE: 40.006593' LONGITUDE: -80.616903' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,529,364.740 EASTING: 1,747,693.030 GEOGRAPHIC (NAD83): LATITUDE: 39,999385' LONGITUDE: -80.612459' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,526,745,390 EASTING: 1,748,948.970 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,559.230 EASTING: 532,697.901 UTM (NAD83, ZONE 17, METERS): (ORTHING: 4,427,760.850 (ASTING: 533,080.712 AZIMUTH POINT LOCATION-4 (AZL4: AZIMUTH POINT LOCATION-11 (AZL11) AZIMUTH POINT LOCATION-16 (AZL16) BOTTOM HOLE LOCATION (BHL): GEOGRAPHIC (NAD83): LATITUDE: 39.977052' LONGITUDE: -80.599068' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,518,629.730 EASTING: 1,752,735.910 GEOGRAPHIC (NAD83): ATITUDE: 40.006580' LONGITUDE: -80.6168 GEOGRAPHIC (NAD83): LATITUDE: 39.997648* LONGITUDE: -80.6113 GEOGRAPHIC (NAD83): LATITUDE: 39.990918* LONGITUDE: -80.6070 LONGITUDE: -98.961839° LONGITUDE: -80.611339° UTM (NADB3, ZONE 17, FEET): NORTHING: 14,526,114.430 EASTING: 1,749,265.430 UTM (NADB3, ZONE 17, METERS): NORTHING: 4,427,568.533 EASTING: 533,177.169 LATHODE: 40.00580 LONGITUDE: -80.616896' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,529,360.080 EASTING: 1,747,695.260 UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,557.809 EASTING: 532,698.581 LONGITUDE: -80.607028' UTM (NAD83, ZONE 17, FEET): NORTHING: 14,523,668.890 EASTING: 1,750,483.660



COMPANY: SWN

Production Company, LLC



UTM (NAD83, ZONE 17, METERS): NORTHING: 4,425,287.192 EASTING: 534,234.974

OPERATOR'S MICHAEL SOUTHWORTH MSH WELL #: 206H DISTRICT: COUNTY: STATE: SANDHILL MARSHALL WV

SWN PRODUCTION COMPANY, LLC SURFACE HOLES

5. "MICHAEL SOUTHWORTH MSH 3H"
6. "MICHAEL SOUTHWORTH MSH 6H"
8. "MICHAEL SOUTHWORTH MSH 8H"
10. "MICHAEL SOUTHWORTH MSH 10H"
206. "MICHAEL SOUTHWORTH MSH 206 210. "MICHAEL SOUTHWORTH MSH 210H" 410. "MICHAEL SOUTHWORTH MSH 410H" 02/14/2025

LEGEND.

0 茶 PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD

ABANDONED WELL PLUGGED & ABANDONED WELL LPLX LANDING POINT LOCATION

- DRILLING UNIT = = = LEASE BOUNDARY HARDLINE BOUNDARY

- UPP 2 > - UPPER POINT PLEASANT PATH

- MAR 2 > - MARCELLUS PATH

DATE: 12-10-2024 **REVISIONS:** DRAWN BY: N. MANO 2000 DRAWING NO: INTERNAL WELL PLAT

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
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	EDGE WILLIAM F JR - TOD ET AL (S)	12-2-15
3	WV BRIGHTMONT LLC (S)	12-2-14
4	G F P CORP (S)	12-2-12
5	GIBSON WILLIAM E(S)	12-9-12
6	GFP CORP (S)	12-2-7
7	PORTER CARLAS (S)	12-9-13
8	W VA DEPT OF HIGHWAYS (S)	MILLER HILL RD
9	MERINAR JAMES MARTIN ET UX (S)	12-9-15.1
10	MERINAR CALVIN C - LIFE(S)	12-9-16
11	MERINAR CALVIN C - LIFE(S)	12-9-18
12	TOLAND SONDRA J & WILLIAM E (S)	12-9-17
13	TEMPLE TERRY L & BEVERLY J - (S)	12-11-4
14	W VA DEPT OF HIGHWAYS (S)	CALDWELL HILL RD
15	GRAY DONALD G - TOD & GRAY WYATT MATTHEW (S)	12-11-8

	ADJOINING OWNERS TABLE	
TRACT	SURFACE OWNER	TAX PARCE
A	GIZA ALEXANDER C & CHRISTOPHER C	12-1-16.1
В	EDGE WILLIAM F JR - TOD ET AL	12-2-16
С	LITMAN JAMES M & LUCY A	12-2-16.1
D	RADCLIFFE JOHN D & ANNA M	
E	E LITMAN BARRYA	
F	VELLENOWETH SCOTT U ET UX	12-2-1.1
G	BLATT THERESA L	12-2-23
н	H BAIRD FAMILY TRUST	
1	REINEKE RICHARD S	12-2-9
1	GREGORY DONNA R	12-2-9.1
K	TDL&G LLC	12-2-8
L	TOTH JOHN J SR & ALICE - TRUST	12-8-4.1
M	RICHEY RANDY ET UX	12-8-35
N	MERINAR CALVIN C - LIFE	12-9-15
0	MERINAR CALVIN C - LIFE	12-8-34
P	MERINAR CALVIN C - LIFE	12-9-16.1
Q	TOLAND WILLIAM EUGENE ET AL	12-8-33
R	WINTERS BEVERLY DIANE - TOD	12-11-6
S	STORCH JOSEPH WILLIAM ET UX	12-11-7
T	STORCH JOSEPH WILLIAM ET UX	12-11-12
U	GRAY WYATT MATTHEW	12-11-8.6
V	GRAY DONALD GET UX - TOD	12-11-8.2
w	RUNKLE MICHELLE LEE	12-11-8.1
X	RUNKLE MICHELL LEE	12-11-8.7
Y	GRAY WYATT MATTHEW	12-11-8.5
Z	TEMPLE DONALD LEE	12-11-4.1
A2	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.3
B2	TEMPLE TERRY L & BEVERLY J - TOD	12-11-8.4
C2	RAYMOND JOHN	12-11-8.9
D2	OHIO COUNTY COAL RESOURCES INC	12-11-8.8
E2	KLAGES MARY ANN	12-11-10
F2	HILLBERRY GARRY L	12-11-9
G2	HILLBERRY PAUL E JR	12-11-9.3
H2	THOMAS RICHARD LEE BARTON	12-11-16
12	TH EXPLORATION LLC	12-11-3
J2	CLAYTON CHARLES W ET AL	12-11-2
K2	MERINAR CALVIN C	12-11-1
12	MERINAR CALVIN C - LIFE	12-9-19
M2	FISHER CHARLES B & CARLA S	12-9-20
N2	GRAY JOHN ALVIN EST	12-9-11
02	ISALY ROBERT A SR EST	12-9-9
P2	EDGE WILLIAM JR & BARBARA ANN - TOD & DAVID WAYNE EDGE	12-9-8
Q2	ISALY ROBERT A SR EST	12-2-13
R2	WHEELING POWER COMPANY	12-9-8.1
52	WV BRIGHTMONT LLC	12-1-16
T2	GIZA ALEXANDER C & CHRISTOPHER C	12-1-16.2

02/14/2025

REVISIONS:	COMPANY:	SWN Production Company, LLC	SVI Production Compa	R ² -√+°
	OPERATOR'S MICH WELL #:	IAEL SOUTHWORTH MSH 206H	API #: 47-051-02521	DRAWN BY: N. MANO
	DISTRICT: SANDHILL	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: 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	OI
Nu	ımber	

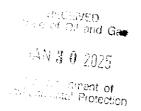
Grantor, Lessor, etc.

Grantee, Lessee, etc.

Royalty

Book/Page

See Exhibit "A"



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

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

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

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

> Well Operator: SWN Production Company, LLC Buly m Snitt By: Andrew M. Smith Its:

Landman

Page 1 of 1 02/14/2025

EXHIBIT "A" Michael Southworth MSH 206H Marshall County, West Virginia

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.	at least 1/8th per WV Code §22-6-8	723/10	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.	11 1 Code 322 0 0	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	Chesapeake Appalachia, L.L.C.	at least 1/8th per	676/179	0.00%
			property Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	WV Code §22-6-8	33/110	
		728963/001	Mable L. Riggle, a widow	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	722/602	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.	WV Code 922-6-8	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.	at least 1/8th per	723/376	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.	WV Code §22-6-8	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	Flux County United Seasth address Chillian	Chesapeake Appalachia, L.L.C.	at least 1/8th per	722/606	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.	WV Code §22-6-8	27/166	
			ವ Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	

EXHIBIT "A"

Michael Southworth MSH 206H Marshall County, West Virginia

hore Properties Inc.	SWN Production Company, LLC		33/424	1
ams, divorced and not remarried	Chesapeake Appalachia, L.L.C.	at least 1/8th per	723/382	0.00%
palachia, L.L.C.	Statoil USA Onshore Properties Inc.	WV Code 922-6-8	27/166	
palachia, L.L.C.	SWN Production Company, LLC		33/110	
hore Properties Inc.	SWN Production Company, LLC		33/424	
Jr. and Barbara Ann Edge, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per	684/583	0.00%
palachia, L.L.C.	Statoil USA Onshore Properties Inc.	***	22/361	
palachia, L.L.C.	SWN Production Company, LLC		33/110	
hore Properties Inc.	SWN Production Company, LLC		33/424	
ige and Theresa T. Edge, Husband and Wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per	684/584	0.00%
palachia, L.L.C.	Statoil USA Onshore Properties Inc.	WV Code §22-6-8	22/361	
pałachia, L.L.C.	SWN Production Company, LLC		33/110	
hore Properties Inc.	SWN Production Company, LLC		33/424	
a widower	TriEnergy Holdings, LLC	at least 1/8th per WV Code §22-6-8	697/483	0.00%
	NPAR, LLC	_	24/180	
LC and NPAR, LLC	Chief Exploration & Development LLC		24/490	
f Exploration and Development, LLC, Radler, 2000	Chesapeake Appalachia, L.L.C. and		756/332	
	-		30/494	
	atatan aan ananara maparara ma			
	ef Exploration and Development, LLC Radler 2000 rship, and Enerplus Resources (USA) Corpo ation	Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC Syn Production Company Syn	tams, divorced and not remarried Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC At least 1/8th per WV Code \$22-6-8 Statoil USA Onshore Properties Inc. Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC SWN Production Company, LLC TriEnergy Holdings, LLC A widower TriEnergy Holdings, LLC A widower TriEnergy Holdings, LLC Chief Exploration & Development LLC and Radler 2000 Limited Partnership Chesapeake Appalachia, L.L.C. and Statoil USA Onshore Properties. Inc.	tams, divorced and not remarried Chesapeake Appalachia, L.L.C. Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC Statoil USA Onshore Properties Inc. SWN Production Company, LLC Syn Production Company, LLC SWN Production

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Michael Southworth MSH 206H

Marshall County, West Virginia

			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	1
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC		33/424	
4	12-2-12	731805/001	Paula Jean Walton, Married and dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	736/646	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/002	Martha L. Greaves, married and dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	739/134	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/003	Nancy Marie Norman and Arch Norman, Wife and Husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	739/139	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/004	Harold Joseph Brock and Joanna Brock, Husband and Wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	739/147	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/005	Robert A. Brock and Wilma Brock, husband and wife	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	739/152	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/006	Janice E. Stift and Ralph Strift, Jr., Wife and Husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	740/167	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/007	James Elwood Leasure, Divorced and unremairied 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	740/172	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/008	Chesapeake Appalachia, L.L.C. Bernice Virginia Brock, Widow and unremarded	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	741/178	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/009	Mary P. Leasure Daniels, Widow and unremarried	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	742/470	0.00%

EXHIBIT "A"

Michael Southworth MSH 206H

Marshall County, West Virginia

			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
		731805/010	Ronald Walton, Jr., Divorced and unremarried	Chesapeake Appalachia, L.L.C.	at least 1/8th per	745/16	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	WV Code §22-6-8	33/110	
		731805/011	Linda Michelle Sturm and Earl F. Sturm, III, Wife and Husband	Chesapeake Appalachia, L.L.C.	at least 1/8th per	745/21	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	WV Code §22-6-8	33/110	
		731805/012	Patricia Eileen Ritchea, Divorced and unremarried	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	749/465	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	;
		731805/013	Iluminada A. Leasure, Widow and unremarried	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	754/277	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	VVV COUC JEE O	33/110	
		731805/014	Carole Ann Smith, in her own right and as Trustee for Ernie Leasure under the Last Will and Testament of Ruth Marie Leasure	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	763/373	0.00%
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
5	12-9-12	751244/001	William E. Gibson, married, dealing in her separate property	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1080/511	0.00%
		751244/002	Eric M. Gordon, Esq., as Special Commissioner on behalf of Leota Campbell Ferrell and her Unknown or Missing Heirs and Beneficiaries, pursuant to Order of the Marshall County Circuit	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1106/576	0.00%
			Court in Civil Action No. 20-C-78				
6	12-2-7	726892/000	GFP Corporation, a West Virginia Corporation	Chesapeake Appalachia, L.L.C.	at least 1/8th per WV Code §22-6-8	700/209	0.00%
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc.		23/512	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc. සිදු රි	SWN Production Company, LLC		33/424	

EXHIBIT "A"

Michael Southworth MSH 206H

Marshall County, West Virginia

7	12-9-13	Pending	Greenbrier Royalty Fund II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1210/658	0.00%
8	Miller Hill Road	Pending	West Virginia Department of Transportation, Division of Highways	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1187/287	0.00%
9	12-9-15.1	730193/000	James M. Merinar and Belinda J. Merinar, his wife	Great Lakes Energy Partners, L.L.C.	at least 1/8th per WV Code §22-6-8	655/81	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	
10	12-9-16	730187/000	Melvin W. Khale, Jr. (50% Interest), representing himself individually and as Attorney-In-Fact of his sister, Rosemary Comstock (50% Interest), a widow	Great Lakes Energy Partners, L.L.C.	at least 1/8th per WV Code §22-6-8	654/270	0.009
			Great Lakes Energy Partners, L.L.C.	Range Resources - Appalachia, LLC	our A	19/443	
			Range Resources - Appalachia, LLC	Chesapeake Appalachia, L.L.C.	2 <u>4</u>	23/368	
			Chesapeake Appalachia, L.L.C.	Statoil USA Onshore Properties Inc. 3	77 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	24/363	
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110	
			Statoil USA Onshore Properties Inc.	SWN Production Company, LLC SWN Production Company, LLC	**	33/424	
11	12-9-18	Pending	Calvin C. Merinar, single	TH Exploration, LLC	at least 1/8th per WV Code §22-6-8	1136/207	0.00
			EQT TGHL Exploration, LLC f/k/a TH Exploration, LLC	SWN Production Company, LLC		1202/119	
12	12-9-17	Pending	Resource Minerals Headwater I, LP	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1190/312	0.00
		750386/000	Randy Ray Brunner and Mary June Brunner, his wife	American Petroleum Partners Operating, LLC	at least 1/8th per WV Code §22-6-8	866/590	0.00
			American Petroleum Partners Operating, LLC	SWN Production Company, LLC	-	45/381	
13	12-11-4	Pending	Golden Eagle Resources II, LLC	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1183/166	0.00

EXHIBIT "A" Michael Southworth MSH 206H 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

14	Caldwell Hill Road	Pending	West Virginia Department of Transportation, Division of Highway	ys SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1187/287	0.00%
15	12-11-8	Pending	Wyatt Matthew Gray, single	SWN Production Company, LLC	at least 1/8th per WV Code §22-6-8	1160/646	0.00%
		750012/000	Donald G. Gray, a married man dealing in his sole and separate property	American Petroleum Partners Operating, LLC	at least 1/8th per WV Code §22-6-8	984/376	0.00%
			American Petroleum Partners Operating, LLC	SWN Production Company, LLC		45/381	

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

January 29, 2025

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

RE: Proposed Expedited Mod:

Michael Southworth MSH 206H

Dear Mr. Brewer:

Enclosed please find the required documents to modify this well. We would like to modify this well by extending the lateral. This well is situated on the Southworth's property, in Sand Hill District, Marshall County, West Virginia.

Enclosed you will find:

-6B

-WBD

-Mylar

-6A1

RECEIVED
Office of Oil and Gas

JAN 3 9 2025

WV Department of Environmental Protection

If you have any questions or desire additional information, please me at 304-884-1613

Thank you.

Sincerely,

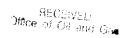
Brittany Woody

Duttany Vibody

Staff Regulatory Specialist

Southwestern Energy Production Company, LLC

R-AV+°



MICHAEL SOUTHWORTH MSH PAD CoalaMapoza

