

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 7, 2022 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359 SPRING, TX 773914954

Re: Permit Modification Approval for BW EDGE MSH 6H 47-051-02472-00-00

Lateral Extension, Updated Lease Chain

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. Martin

Operator's Well NumberBW EDGE MSH 6HFarm Name:WILLIAM F EDGE JR & BARABARA EDGE - TOD:U.S. WELL NUMBER:47-051-02472-00-00Horizontal 6ANew DrillDate Modification Issued:12/07/2022

Promoting a healthy environment.

WW-6B (04/15) CLATE OF TO THE API NO. 47-051 - 02472 Exp Mol OPERATOR WELL NO. BW Edge MSH 6H Well Pad Name: BW Edge MSH
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION
SWN Production Co., LLC 494512924 051-Marshal 6-Sand H 674-Wheeling Operator ID County District Quadrangle
2) Operator's Well Number: BW Edge MSH 6H Well Pad Name: BW Edge MSH
3) Farm Name/Surface Owner:
4) Elevation, current ground: 1254' Elevation, proposed post-construction: 1254' 5) Well Type (a) Gas X Oil Underground Storage Other
Horizontal X 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- 6505', Target Base TVD- 6557', Anticipated Thickness- 52', Associated Pressure- 4263
8) Proposed Total Vertical Depth: 6541'
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 25609'
11) Proposed Horizontal Leg Length: 16487.71'
12) Approximate Fresh Water Strata Depths: 615'
13) Method to Determine Fresh Water Depths: Nearby Water Well 14) Approximate Saltwater Depths: 1386' Salinity Profile Analysis
15) Approvimate Coal Seam Depths: 741'
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 X
(a) If Yes, provide Mine Info: Name:
Depth:
Seam: RECEIVED
Owner:

Strader Gower

11/9/2022

WV Department of Environmental Protection



API NO. 47- ⁰⁵¹ -OPERATOR WELL NO. <u>BW Edge MSH 6H</u> Well Pad Name: <u>BW Edge MSH</u>

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> <u>Used</u>	Grade	<u>Weight per ft.</u> (lb/ft)	<u>FOOTAGE: For</u> <u>Drilling (ft)</u>	INTERVALS: Left in Well (ft)	CEMENT: <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	126'	126'	CTS
Fresh Water	13 3/8"	New	H-40	48#	800'	800'	748 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2056'	2056'	871 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	25609'	25609'	Tail 3579sx/ 100' Inside Intermediate
Tubing							
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	<u>Anticipated</u> <u>Max. Internal</u> <u>Pressure (psi)</u>	<u>Cement</u> <u>Type</u>	<u>Cement</u> <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"	0.380	2730	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	1.19/5% Excess
Tubing							
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

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Strader Gower

11/9/2022

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 unites, horizontal separation units, water and oil storage tanks. Max press and anticipated max rate- 12,500 psi @ 100 barrels a minute.

22) Area to be disturbed for well pad only, less access road (acres): 6.58

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.

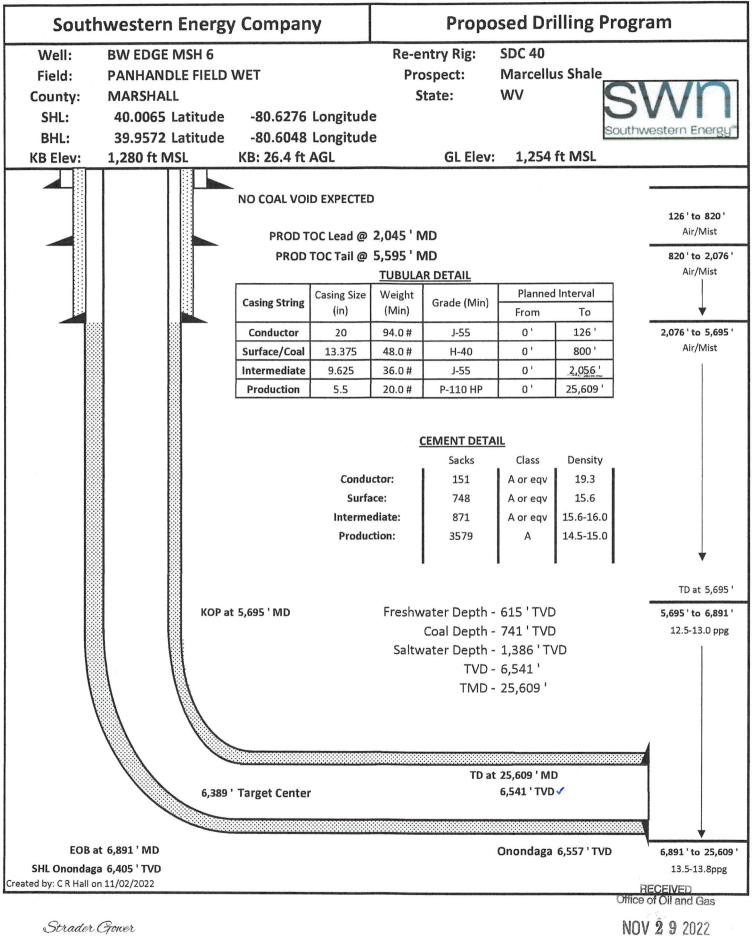
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*Note: Attach additional sheets as needed.





12/09/2022 WV Department of Environmental Protection

API	Operator	Status	Latitude	Longitude	Vertical TD	Producing Formati
47-0051-90001	Unknown	Unknown	***	***	Unknown	Unknown
47-0051-0059-P	Kingery Drilling P.O. Box 1588 Ardnmore, OK 73401	Plugged	***	***	1,950	Unknown

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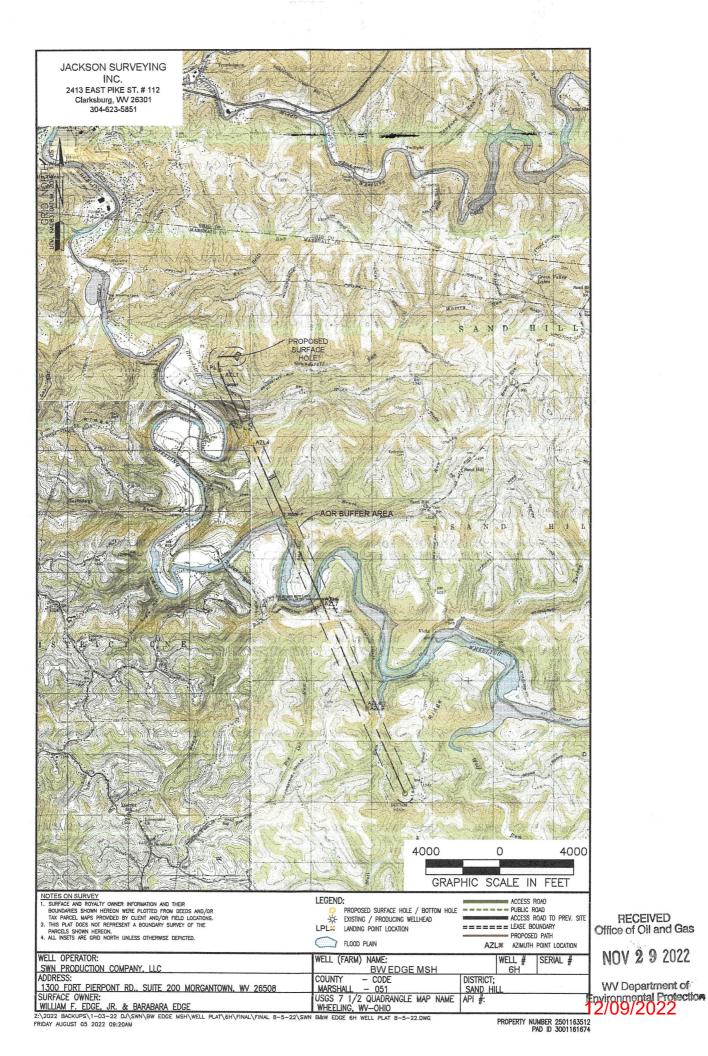
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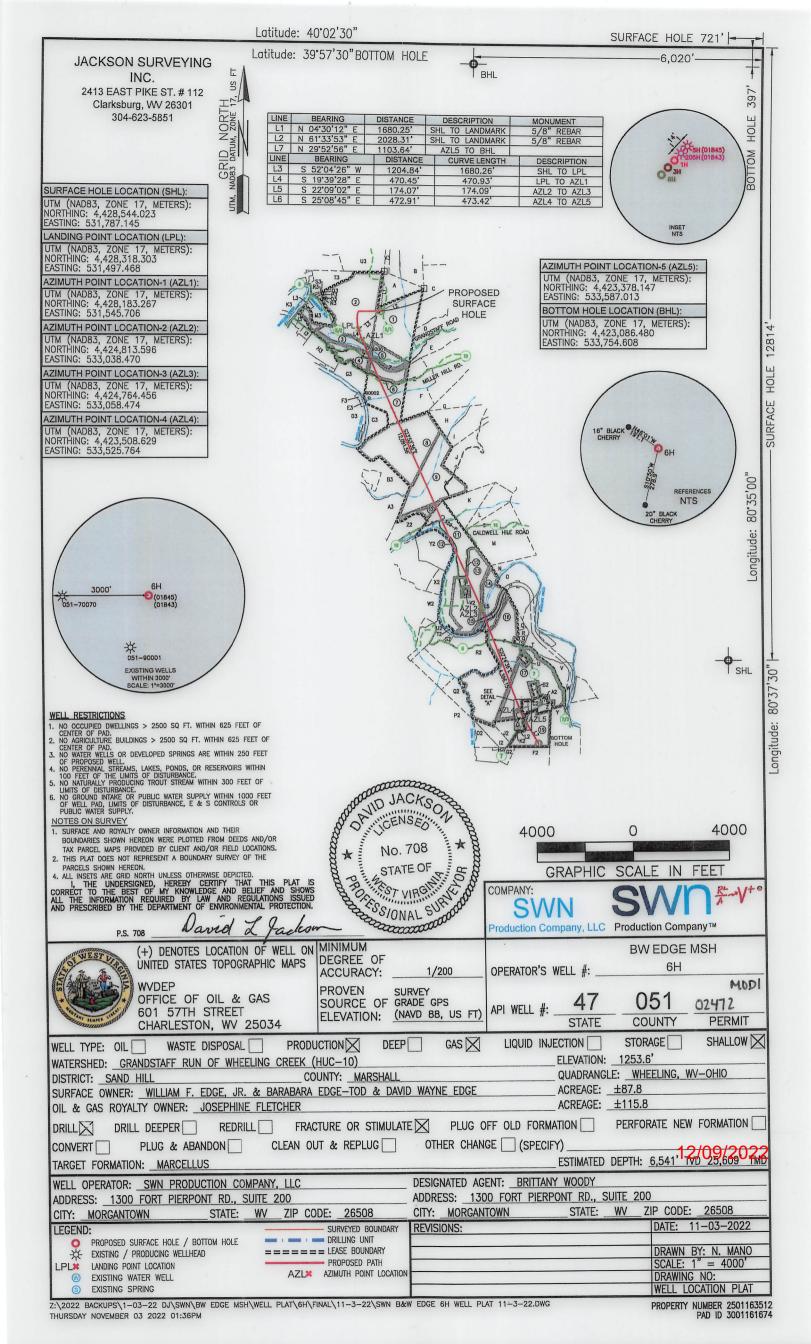
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JACKSON SURVEYING INC. 2413 EAST PIKE ST. # 112

Clarksburg, WV 26301 304-623-5851

	WELL BORE TRACTS	Contraction of the
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	EDGE WILLIAM JR & BARBARA ANN - TOD & DAVID WAYNE EDGE (S)/ FLETCHER JOSEPHINE (R)	12-9-8
TRACT	SURFACE OW NER (S)	TAX PARCEL
2	FOLMAR EDITH A TRUST (S)	12-1-19
З	WHEELING CREEK WATERSHED COMM (S)	12-9-6.1
4	DYE ALBERT M - LIFE (S)	12-9-6
5	ISALY ROBERT A SR EST (S)	12-9-9
6	WV DEPARTMENT OF TRANSPORTATION (S)	ROUTE 18 MILLER HILL RD
7	PIKEWOOD ENERGY CORP (S)	12-9-10
8	FISHER CHARLES B & CARLA S (S)	12-9-20
9	MERINAR CALVIN C - LIFE (S)	12-9-19
10	MERINAR CALVIN C - LIFE (S)	12-10-7
11	MERINAR KENNETH L ET AL (S)	12-10-9
12	WV DEPARTMENT OF TRANSPORTATION (S)	ROUTE 16 CALDWELL HILL RD
13	HICKEY GLENN M (S)	12-10-8
14	HICKEY GLENN M (S)	15-1-6.1
15	HICKEY GLENN M (S)	15-1-7
16	ROSE TATIA JOSEPHINE (S)	15-1-19
17	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-16
18	ISKCON - NEW MATHURA VRINDABAN (S)	15-1-16.3
19	ECO-VRINDABAN, INC (S)	15-2-3.5

	ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE	
RACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCE
A	WHEELING POWER COMPANY	12-9-8.1	K2	FRAENKELANDY & RUTH	15-2-3.7
в	GIZA ALEXANDER C & CHRISTOPHER C	12-1-16	L2	FRAENKELANDY & RUTH	15-2-3.2
С	GIZA ALEXANDER C & CHRISTOPHER C	12-2-14	M2	FRAENKELANDY & RUTH	15-2-3.4
D	ISALY ROBERT A SR EST	12-2-13	N2	ISKCON - NEW MATHURA VRINDABAN	15-2-3.3
E	GIBSON WILLIAM E	12-9-12	02	ISKCON - NEW MATHURA VRINDABAN	15-2-3
F	GRAY JOHN ALVIN	12-9-11	P2	ISKCON - NEW MATHURA VRINDABAN	15-2-2
G	MERINAR JAMES MARTIN ET UX	12-9-15.1	Q2	ECO-VRINDABAN, INC	15-1-6
н	MERINAR CALVIN C - LIFE	12-9-15	R2	MERINAR KENNETH L ET AL	15-1-6.3
1	MERINAR CALVIN C - LIFE	12-9-16	S2	MERINAR KENNETH L ET AL	15-1-6.2
J	MERINAR CALVIN C - LIFE	12-9-18	T2	MERINAR JEFFREY T	12-10-8.2
K	MERINAR CALVIN C	12-11-1	U2	LORENCE THOMAS & SILVIA LAU	15-1-5
L	CLAYTON CHARLES W ET AL	12-11-2	V2	ECO-VRINDABAN, INC	15-1-4
M	TH EXPLORATION LLC	12-11-3	W2	HICKORY GLENN M	12-10-8.1
N	THOMAS RICHARD LEE BARTON	12-11-16	X2	BAUER DEBRA RAE & WHITE WILLIAM E	15-1-2.2
0	ISKCON - NEW MATHURA VRINDABAN	15-1-8	Y2	FINTEL DOUGLAS	15-1-2.1
P	ISKCON - NEW MATHURA VRINDABAN	15-1-9	Z2	ECO-VRINDABAN, INC	15-1-2
q	ROSE TATIA JOSEPHINE	15-1-10	A3	FISH PATRICIA A & FREDERICK W	12-10-1.2
R	PRETTYMAN JEREMY A & BETH A	15-1-19.1	83	SCHAFER ROY A JR & EDWARD J	12-9-22
5	BROWN ELEANORE	15-1-11	C3	GRAY JOHN ALVIN	12-9-21
T	ISKCON - NEW MATHURA VRINDABAN	15-1-12	D3	GRAY JOHN ALVIN	13-3-14
U	ISKCON - NEW MATHURA VRINDABAN	15-1-16.2	E3	SHEPHERD TIMOTHY & DEBORAH L	13-3-14.4
V	ISKCON - NEW MATHURA VRINDABAN	15-1-15	F3	PROVANCE FRANK J & EUZABETH & BARRY F	13-3-14.5
w	ISKCON - NEW MATHURA VRINDABAN	15-1-14	G3	STEADMAN FRANKLIN L ET UX	12-9-5.1
x	MARKWEST LIBERTY MIDSTREAM & RESOURCES LLC	15-2-3.1	H3	MANNERS NATALIE M	12-9-5
Y	AN DERSON SARA JO	15-2-4	13	TEACOACH JAY MET UX	12-9-5.3
Z	ISKCON - NEW MATHURA VRINDABAN	15-2-3.6	13	DYE WILLIAM R	12-9-1
A2	ISKCON - NEW MATHURA VRINDABAN	15-1-16.1	K3	MAAS BRIAN J & AMY C - TRUST	13-3-10
B2	ISKCON - NEW MATHURA VRINDABAN	15-1-17	13	MERINAR JUSTIN K	12-1-21
C2	ISKCON - NEW MATHURA VRINDABAN	15-1-18	M3	HADSELL SANDRA L	12-1-20
D2	MOWEN JOHN H JR	15-1-18.1	N3	DUFF JAMES E & BROOKE L CAPP	12-1-22.1
E2	ISKCON NEW VRINDABAN	15-1-18.2	03	DUFF JAMES E & BROOKE L CAPP	12-1-22
F2	ISKCON - NEW VRINDABAN INC	15-2-5	P3	FRAZIER GREGORY SCOTT - TOD	12-1-23
G2	PATEL RAMESH & VINA	15-2-5.7	03	PALMERADAMR	12-1-26
H2	ALPERT DIANT	15-2-5.1	R3	FRAZIER GREGORY SCOTT - TOD	12-1-27.1
12	GAFFOOR SHAM & VIDYA RAMKAREE	15-2-3.8	S3	PALMER ADAM R	12-1-27.2
J2	HELLER ELICIA N	15-2-3.8	T3	ADASE GEORGE & LAURIE	12-1-28
JZ	HELLER ELICIA IN	15-2-3.9	U3	SCHELLHASE MARK A ET UX	12-1-18
	DETAU "Δ"		U4	GIZA ALEXANDER C & CHRISTOPHER C	12-1-15



-V+0 COMPANY: **REVISIONS:** SW RA SWN Production Company, LLC Production Company™ API #: 47-051-02**472** DATE: 11-03-2022 OPERATOR'S BW EDGE MSH 6H WELL #: DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2 DISTRICT: SAND HILL COUNTY: MARSHALL STATE: WV MODI

12/09/2022

Z:\2022 BACKUPS\1-03-22 DJ\SWN\BW EDGE MSH\WELL PLAT\6H\FINAL\11-3-22\SWN B&W EDGE 6H WELL PLAT 11-3-22.DWG THURSDAY NOVEMBER 03 2022 11:27AM

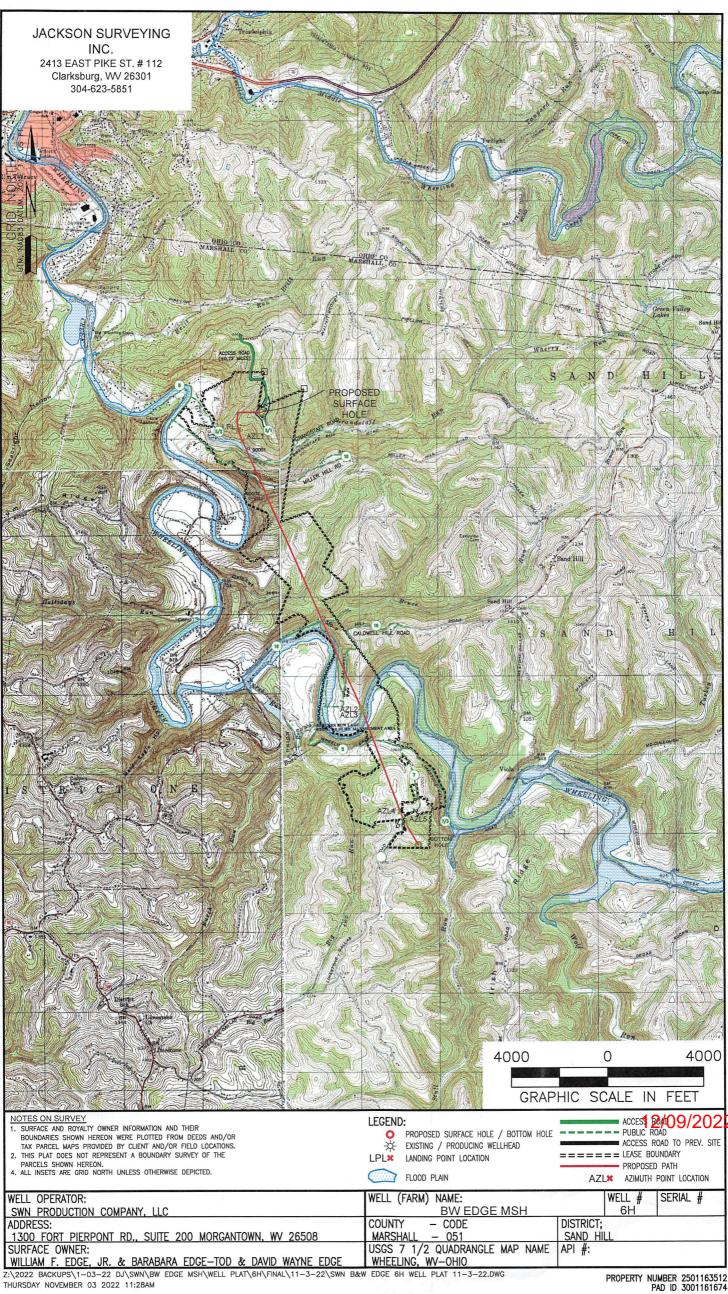


EXHIBIT "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator BW Edge MSH 6H Marshall County, West Virginia



1) 12-0009-0008-0000 Josephine Fletcher f/k/a Josephine Fisher, a married woman acting in her sole and separate property NPAR, LLC 2) 12-0001-0019-0000 Edith Adell Folmar, a widow SWN Production Company, LLC. 3) 12-0009-0006-0001 Wheeling Creek Watershed Protection and Flood Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Protection and Flood SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a married man dealing in his sole and separate property SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a Married man dealing in his sole and separate property SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a Married man dealing in his sole and SWN Production Company, LLC SWN Production Company, LLC	지 않는 것은 책상과 것이야지 않는 것이 같아요.	BK/PG
woman acting in her sole and separate property Chevron U.S.A. Inc. Chevron U.S.A. Inc. Chevron U.S.A. Inc. SWN Production Company. LLC SWN Production Company, LLC. SWN Production Company. LLC Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Corporation 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC William R. Dye, a married man dealing in his sole and separate property SWN Production Company, LLC William R. Dye, a married man dealing in his sole and separate property SWN Production Company, LLC Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC		
4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Rimberly Dye-Schoger and SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Kimberly Dye-Schoger and SWN Production Company, LLC	20.00%	707/584
SWN Production Company, LLC. 2) 12-0001-0019-0000 3) 12-0009-0006-0001 Wheeling Creek Watershed Protection and Flood Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Corporation 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC dealing in his sole and separate property William R. Dye, a married man dealing in his sole and separate property William R. Dye, a married man dealing in his sole and separate property Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC		756/332
2) 12-0001-0019-0000 Edith Adell Folmar, a widow SWN Production Company, LLC. 3) 12-0009-0006-0001 Wheeling Creek Watershed Protection and Flood Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Corporation SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a married man dealing in his sole and separate property SWN Production Company, LLC 4) SWN Production Company, LLC SWN Production Company, LLC 4) SWN Production Company, LLC SWN Production Company, LLC		30/532
3) 12-0009-0006-0001 Wheeling Creek Watershed Protection and Flood Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Corporation SWN Production Company, LLC 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC dealing in his sole and separate property William R. Dye, a married man dealing in his sole and separate property SWN Production Company, LLC Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC		33/110
Prevention Commission, a West Virginia Corporation, d/b/a Wheeling Creek Watershed Corporation 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC dealing in his sole and separate property William R. Dye, a married man dealing in his sole and separate property Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC	18.00%	932/525
d/b/a Wheeling Creek Watershed Corporation 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC dealing in his sole and separate property William R. Dye, a married man dealing in his sole and SWN Production Company, LLC separate property Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and SWN Production Company, LLC Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L.	18.00%	1095/333
d/b/a Wheeling Creek Watershed Corporation 4) 12-0009-0006-0000 Richard D. Dye, a/k/a Richard Douglas Dye, a married man SWN Production Company, LLC dealing in his sole and separate property William R. Dye, a married man dealing in his sole and SWN Production Company, LLC separate property Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and SWN Production Company, LLC Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L.		
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separate property Kimberly D. Schoger a/k/a Kimberly Dye-Schoger and Matthias D. Schoger, wife and husband Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC	15.00%	1073/577
Kimberly D. Schoger a/k/a Kimberly Dye-Schoger andSWN Production Company, LLCMatthias D. Schoger, wife and husbandMark M. Dye a/k/a Mark Montgomery Dye and Tania L.SWN Production Company, LLC	15.00%	1073/217
Mark M. Dye a/k/a Mark Montgomery Dye and Tania L. SWN Production Company, LLC	15.00%	1073/501
	15.00%	1073/601
5) 12-0009-0009-0000 Robert A. Isaly, Jr. and Margaret A. Isaly, husband and Chesapeake Appalachia, L.L.C.	18.00%	834/199
wife SWN Production Company, LLC		33/110
Connie S. Harris, a married woman dealing in her sole and SWN Production Company, LLC	18.00%	1073/30
separate property Edward L. Gardner, II, a married man dealing in his sole SWN Production Company, LLC	18.00%	1074/486
and separate property Scott A. Gardner, a married man dealing in his sole and SWN Production Company, LLC	18.00%	1073/44
separate property Eric M. Gordon, Esq., as Special Commissioner on behalf SWN Production Company, LLC of James E. Isaly and his Uknown Heirs and Beneficiaries	18.00%	1114/363
6) Miller Hill Road West Virginia Department of Transportation, Division of SWN Production Company, LLC Highways	20.00%	955/69
7) 12-0009-0010-0000 Golden Eagle Resources II, LLC American Petroleum Partners Operating, LLC	19.00%	965/370
SWN Production Company, LLC		45/381

		Joan Hindman Hutcherson, a widow	TH Exploration, LLC	15.00%	898/593
			American Petroleum Partners Operating LLC		43/497
			SWN Production Company. LLC		45/381
		George Leslie Kersey, a single person	SWN Production Company, L.L.C.	18.00%	881/41
		Geana Kay Kersey, a single person	SWN Production Company, L.L.C.	18.00%	881/46
		Dennis Mitchell Kersey, a single person	SWN Production Company, L.L.C.	18.00%	883/475
		Tiffany Ann Kersey, a single person	SWN Production Company, L.L.C.	18.00%	886/366
		Gregory Keith Kersey, Jr., a single man	SWN Production Company, LLC	18.00%	988/141
8)	12-0009-0020-0000	Charles B. Fisher and Carla S. Fisher, his wife	TriEnergy, Inc.	12.50%	655/559
			AB Resources LLC		19/623
			Chevron U.S.A. Inc.		756/397
			Chesapeake Appalachia, L.L.C.		30/532
			SWN Production Company LLC		33/110
9)	12-0009-0019-0000	Robert A. Smith, a married man dealing in his sole and	Chesapeake Appalachia, L.L.C.	18.00%	721/209
		separate property	SWN Production Company, LLC		33/110
10)	12-0010-0007-0000	Calvin C. Merinar, divorced, dealing in his sole and	Great Lakes Energy Partners, L.L.C.	14.00%	652/32
		separate property	Range Resources - Appalachia, LLC		19/443
l			Chesapeake Appalachia, L.L.C.		23/368
			SWN Production Company ILC		33/110
11)	12-0010-0009-0000	Kenneth Lee Merinar, a married man dealing in his sole	TriEnergy Holdings, LLC	18.75%	706/105
		separate property, James Martin Mariner, a married man	NPAR, LLC		26/120
		dealing in his sole separate property; Jeffrey Thomas	Chevron U.S.A. Inc.		26/201
		Merinar, a single man; and, Stanley J. Merinar, a married	Chesapeake Appalachia, L.L.C.		30/532
		man dealing in his sole separate property	SWN Production Company, LLC		33/110
12)	Caldwell Hill Road	West Virginia Department of Transportation, Division of	SWN Production Company, LLC	20.00%	1142/351
		Highways			
13)	12-0010-0008-0000	Glenn M. Hickey, a single man, Stanley L. Merinar, a	TriEnergy Holdings, LLC	18.75%	706/613
		married man dealing in sole and separate property, and	NPAR, LLC		24/180
		Calvin C. Merinar, a single man	Chevron U.S.A. Inc.		756/332
		-	Chesapeake Appalachia, L.L.C.		30/532
			SWN Production Company, LLC		33/110

	married man dealing in sole and separate property, and Calvin C. Merinar, a single man Glenn M. Hickey, a single man	NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, L.L.C.	18.75%	24/180 756/332 30/532 33/110 860/340
15-0001-0007-0000	Tatia Josephine Rose, a single woman	Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	820/167 32/235 33/110
15-0001-0019-0000	Tatia Josephine Rose, a single woman	Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	16.00%	820/167 32/235 33/110
15-0001-0016-0000	International Society of Krishna Consciousness - New Mathura Vrindaban, Inc. by Carlos Ordonez, President	NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18.75%	696/144 756/332 30/532 33/110
15-0001-0016-0003	ISKCON New Vrindaban, Inc.	American Petroleum Partners Operating, LLC SWN Production Company, LLC	20.00%	979/22 45/381
15-0002-0003-0005	Gorakshya-Seva & Environmental Education Trust Of America, Inc. (dba GEETA)	NPAR, LLC Chevron U.S.A. Inc. Chesapeake Appalachia, L.L.C.	18.75%	696/94 756/332 30/532
	15-0001-0019-0000 15-0001-0016-0000 15-0001-0016-0003	Glenn M. Hickey, a single man 15-0001-0007-0000 Tatia Josephine Rose, a single woman 15-0001-0019-0000 Tatia Josephine Rose, a single woman 15-0001-0016-0000 International Society of Krishna Consciousness - New Mathura Vrindaban, Inc. by Carlos Ordonez, President 15-0001-0016-0003 ISKCON New Vrindaban, Inc. 15-0002-0003-0005 Gorakshya-Seva & Environmental Education Trust Of	Glenn M. Hickey, a single man Chesapeake Appalachia, L.L.C. 15-0001-0007-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 15-0001-0010-0010 International Society of Krishna Consciousness - New NPAR, LLC 15-0001-0016-0000 International Society of Krishna Consciousness - New NPAR, LLC 15-0001-0016-0003 ISKCON New Vrindaban, Inc. by Carlos Ordonez, President Chevron U.S.A. Inc. 15-0001-0016-0003 ISKCON New Vrindaban, Inc. American Petroleum Partners Operating, LLC 15-0002-0003-0005 Gorakshya-Seva & Environmental Education Trust Of America, Inc. (dba GEETA) NPAR, LLC	Glenn M. Hickey, a single man Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 18.75% 15-0001-0007-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 16.00% 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 16.00% 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 16.00% 15-0001-0019-0000 Tatia Josephine Rose, a single woman Chevron U.S.A. Inc. 16.00% 15-0001-0019-0000 International Society of Krishna Consciousness - New NPAR, LLC SWN Production Company, LLC 15-0001-0016-0000 International Society of Krishna Consciousness - New NPAR, LLC SWN Production Company, LLC 15-0001-0016-0003 ISKCON New Vrindaban, Inc. SWN Production Company, LLC SWN Production Company, LLC 15-0001-0016-0003 ISKCON New Vrindaban, Inc. American Petroleum Partners Operating, LLC 20.00% 15-0002-0003-0005 Gorakshya-Seva & Environmental Education Trust Of America, Inc. (dba GEETA) NPAR, LLC 18.75%

* 18 : 19 added/updated leases



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

August 2, 2022

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

RE: SWN's proposed New Well: BW Edge MSH 6H in Marshall County, West Virginia, Drilling under Walnut Grove Road, Grandstaff Road, Miller Hill Road, Caldwell Hill Road, Big <u>Wheeling Creek Road</u>, Lowers Stull Run Road, and McCreary's Ridge Road.

-1 -1

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, Grandstaff Road, Miller Hill Road, Caldwell Hill Road, Big Wheeling Creek Road, Lowers Stull Run Road, and McCreary's 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,

Andrew Rielly Staff Landman SWN Production Company, LLC



The Right People doing the Right Things, wisely investing the cest love from our underlying Assets, will create Value+®



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

November 28, 2022

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

RE: Proposed Expedited Modification: BW Edge MSH 6H

Dear Mr. Brewer:

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

Enclosed you will find:

-6B -WBD -Mylar -6A1

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

Thank you.

Sincerely,

Brittany Moody

Brittany Woody Senior Regulatory Analyst Southwestern Energy Production Company, LLC

> RECEIVED Office of Oil and Gas

NOV 2 9 2022

WV Department of Environmental Protection

The Right People Oping the Right Prices, wisely investing the cash flow homour underlying Assets, will create Value+®



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Expedited Modification Horizontal H6A Well Work Permit API : (47-051-02472)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Wed, Dec 7, 2022 at 10:57 AM To: Eric Buzzard <ebuzzard@marshallcountywv.org>, Strader C Gower <strader.c.gower@wv.gov>, Brittany Woody <Brittany Woody@swn.com>, Liz Gee <liz_gee@swn.com>

I have attached a copy of the newly issued well permit numbers:

47-051-02472 - BW EDGE MSH 6H

These will serve as your copy.

Thank you,

Wade A. Stansberry

Environmental Resource Specialist 3

West Virginia Department of Environmental Protection

Office of Oil & Gas

601 57th St. SE

Charleston, WV 25304

(304) 926-0499 ext. 41115

(304) 926-0452 fax

Wade.A.Stansberry@wv.gov

47-051-02472 - mod.pdf 7-9202K