

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

Monday, January 8, 2024 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re:

Permit approval for Serafin Ortiz MSH 405H

47-051-02511-00-00

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

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

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: Serafin Ortiz MSH 405H

Farm Name: Frank J & Lori A Longwell

U.S. WELL NUMBER: 47-051-02511-00-00

Horizontal 6A New Drill

Date Issued: 1/8/2024

API Number: 47-051-2511

PERMIT CONDITIONS

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

CONDITIONS

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

API NO. 47-	051 _			
OPERATO	OR WELL	NO.	Serafin Oniz MSH 405H	. ,
Well Pag	d Name:	Scrafin	Ortiz	1

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

) Well Operator: SWN Production Co., LLC 494512924 051-Marshal 13-Union 486-Moundsville	9
Operator ID County District Quadrangle	
Operator's Well Number: Serafin Ortiz MSH 405H Well Pad Name: Serafin Ortiz	
) Farm Name/Surface Owner: Frank & Lori Longwell Public Road Access: Grand View Road	
Elevation, current ground: 1279' Elevation, proposed post-construction: 1279'	
) Well Type (a) Gas X Oil Underground Storage	
Other	
(b)If Gas Shallow X Deep	
Horizontal ×	
Existing Pad: Yes or No Yes	
Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s): Target Formation-Marcellus, Up-Dip well to the North, Target Top TVD- 6258', Target Base TVD- 6314', Anticipated Thickness- 56', Associated Pressure- 4104	
Proposed Total Vertical Depth: 6303'	
Formation at Total Vertical Depth: Marcellus	
0) Proposed Total Measured Depth: 28233'	***********
1) Proposed Horizontal Leg Length: 22,232.08'	
2) Approximate Fresh Water Strata Depths: 414'	
3) Method to Determine Fresh Water Depths: Salinity Profile	
4) Approximate Saltwater Depths: 1168' Salinity Profile	
5) Approximate Coal Seam Depths: 763'	
6) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.	
7) Does Proposed well location contain coal seams rectly overlying or adjacent to an active mine? Yes No X	
(a) If Yes, provide Mine Info: Name:	-
Depth:	
Scam:	-
Owner:	
Strader Gower	
10/31/2023	

Page 1 of 3

API NO. 47- 051

OPERATOR WELL NO. Serafin Orliz MSH 405H
Well Pad Name: Serafin Orliz

18)

CASING AND TUBING PROGRAM

TYPE	T		T				Name .
	Size (in)	New or Used	Grade	Weight per ft. (Ib/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#	793'	793' /	913 sx/CTS
Coal	See	Surface	Casing			, 00	0.0000000
Intermediate	9 5/8"	New	J-55	36#	2087'	2087' /	802 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	28233'	28233' /	Tail 5314sx/ 100' Inside Intermediate
Tubing					20200	20233 /	raii 53 i4si/ Tuu' inside Intermediale
Liners							

TYPE		XX7-111	Wall		Anticipated		C
	Size (in)	Wellbore Diameter (in)	Thickness (in)	Burst Pressure (psi)	Max. Internal Pressure (psi)	Cement Type	Cement <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1
Fresh Water	13 3/8"	17.5"	0.380	2730	633	Class A	
Coal	See	Surface	Casing			0100071	1.20/00 /6 LAGESS
Intermediate	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/40% Excess
Production	5 1/2"	8 3/4"-8 1/2"	0.361	14360	10500		
Tubing					10000	Class A	1.19/3 % EXCESS
Liners							
	11			OCCEN.	ren		

RECEIVED
Office of Oil and Gas

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PACKERS

WV Department of

Environmental Protection	MATERIAL PROPERTY AND ADDRESS OF THE PARTY O
	Environmental Protection

July 2013

WW-6B (10/14)

4705102511

API NO. 47-051

OPERATOR WELL NO. Serafin Ortiz MSH 405H

Well Pad Name: Scrafin Ortiz

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): 8.2
- 22) Area to be disturbed for well pad only, less access road (acres): 3.87
- 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 ***

RECEIVED
Office of Oil and Gas

DEC 05 2023

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.

WW-9 (4/16)

API Number 47 - 051

Operator's Well No. Serafin Ortiz MSH 405H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC	OP Code 494512924
Watershed (HUC 10) Upper Ohio South	Ouadrangle Moundsville
Do you anticipate using more than 5,000 bbls of water to complet	te the proposed well work? Yes V No
Will a pit be used? Yes No No	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes Proposed Disposal Method For Treated Pit Wastes:	No _✓ If so, what ml.?
Land Application	
Underground Injection (UIC Permit N	umber_Various Approved Facilities
Reuse (at API Number At the next anticpiat	ted well
Off Site Disposal (Supply form WW-9 Other (Explain recovery and solidification	on on site
Will closed loop system be used? If so, describe: Yes- See Attach	nment 3A
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based etc. Air drill to KOP, fluid drill with SOBM from KOP to To
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	
Additives to be used in drilling medium? Attachment 3B	
Drill cuttings disposal method? Leave in pit, landfill, removed offs	site, etc. landfill
-If left in pit and plan to solidify what medium will be use	
-Landfill or offsite name/permit number? Meadowfill SWE- 103	Short Crook SWE 1021 Co. L.
A POX Caritary Larivilli 00-00430 Brooke LA SWE	71173 ENGS 252310
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	of any load of drill cuttings or associated waste rejected at any hin 24 hours of rejection and the permittee shall also disclose
provisions of the permit are enforceable by law. Violations of any	amined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for
Subscribed and sworm before me this 22 day of Western Blankenster My commission expires 62324	Notary Public Official Seal Notary Public Official Seal Notary Public State of West Virginia Elizabeth Blankenship 941 Simpson Bun Road 01/11/240/02452 My commission expires June 23, 2024

Form WW-9

Title: Oil & Gas Inspector

Field Reviewed?

Operator's Well No. Serafin Ortiz MSH 405H SWN Production Co., LLC Proposed Revegetation Treatment: Acres Disturbed 8.2 Prevegetation pH _____ $Lime \ \underline{\ \ ^{\text{as determined by pH test min.2}}} \ Tons/acre \ or \ to \ correct \ to \ pH \ \underline{\ \ 3.87}$ Fertilizer type 10-20-20 Fertilizer amount 600/500 lbs/acre Mulch_ Hay/Straw Tons/acre Seed Mixtures Temporary Permanent Seed Type lbs/acre Seed Type Ibs/acre Attachment 3C Attach: Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: Office of Oil and Gas Environmental Protection

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

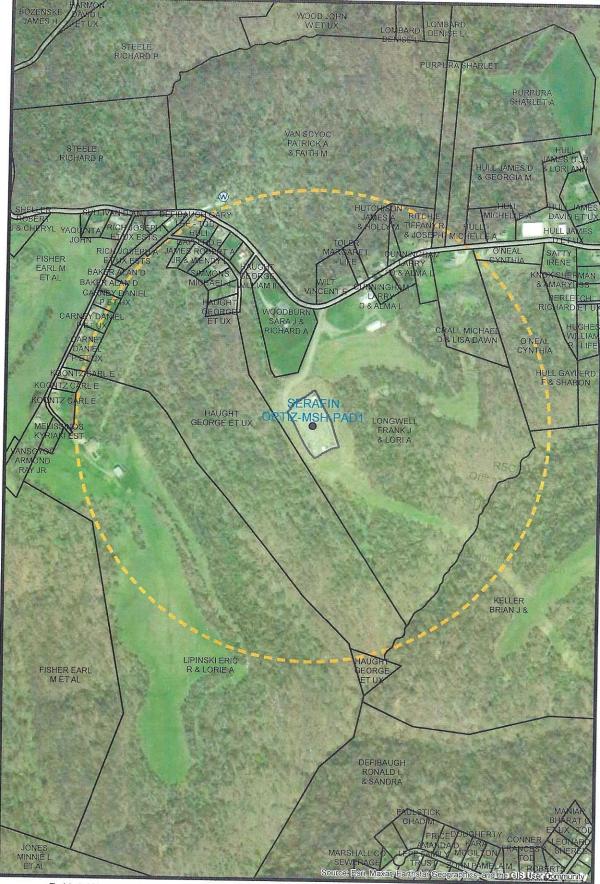


SWN Production Company, LLC 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Serafin Ortiz MSH 405H
Moundsville QUAD
Union DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>6/19/2023</u>	
Title: Staff Regulatory Specialist	SWN Production C	Co., LLC
Approved by:		
Name: Stal Conso	Date: 1/20/202	3
Title: Oild Gas Inspector		
Approved by:		RECEIVED Office of Oil and Gas
Name:	Date:	DEC 05 2023
Title:	Envi	MV Department of Tonmental Protection
SWN PRODUCTION COMPANY LLC	CONFIDENTIAL	

SWN PRODUCTION COMPANY, LLC - CONFIDENTIAL



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

Structu	re	Proxim	ity Map	Well Pa Serafir		z			County: Wetzel	
Map by:	youngst	Date: 6/15/2023	Water Sources Spring				1 inch = 464 feet		N	
	83 one 17	SWN	Wwater Well	0	165	330	660	990	1,3 ₂ 0,17\$2/	20
			Pond		Documen	Path: KritiansPlays	Olifean DelaiGiSWooran GERegulatory Water Puney	- NepviSeratin Ora		

LATITUDE: 40°05'00"



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

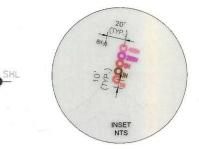
SURFACE HOLE LOCATION (SHL):

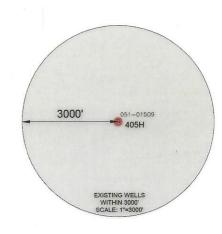
UTM (NAD83, ZONE 17, M NORTHING: 4,426,774.348 EASTING: 524,992.285 LANDING POINT (LPL): METERS):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,945.792 EASTING: 525.418.019

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,976.568 EASTING: 523,027.239









LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT	
L1	N 28*15'36" W	299.16	SHL TO MONUMENT	IRON ROD	
L2	N 01*06'42" E	647.55	SHL TO MONUMENT	IRON ROD	

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 68'03'55" E	1,505.76	2,187.98	SHL TO LPL
L4	N 21°50'37" W	19,069.86	19,069.86	LPL TO AZL1
L5	S 20'46'08" E	107.70	107.70	AZL1 TO AZL2
L6	N 19'41'18" W	2,107.81	2.107.81	AZL2 TO BHL

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.

 NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.

 NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.

 PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.

 NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

 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. TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE TIES TO WELLS AND CORNERS ARE BASED ON COM.,

 17. US FT.

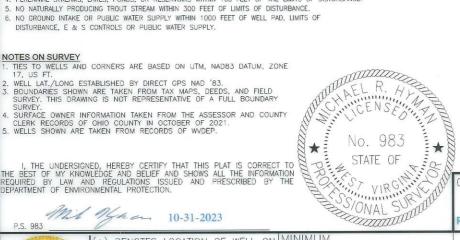
 WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.

 BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD
 SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY

- SURVEY.

 4. SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.

 5. WELLS SHOWN ARE TAKEN FROM RECORDS OF WYDEP.



COMPANY SWN

1/21 Mykan 10-31-2023

OF WEST LINE UNITED S
WVDEP

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

OIL & GAS TRFFT , WV 25034 MINIMUM DEGREE OF ACCURACY:

1/200 PROVEN SURVEY SOURCE OF GRADE GPS

OPERATOR'S WELL #:

SERAFIN ORTIZ MSH

47 51

02511 HG

wow.	ANI SEMPER	UBER	OFF 601 CHA	57	TH	S
WELL	TYPE:	OIL [WAS	STE	DIS

API WELL #:

STATE

PERMIT COUNTY

WELL TYPE: OIL WASTE DISPOSAL	PRODUCTION	DEEP	GAS 🔀	LIQUID INJECTION	STORAGE	SHALLOW 🔀
NATERSHED: UPPER OHIO-WHEELING	97	22-20			1278.69	
DISTRICT: UNION	COUNTY: MAR	SHALL		QUADRANGI	E: MOUNDSVILLE	7.5', WV
SURFACE OWNER: FRANK J. & LORI A. LONG	WELL					±44.949
OIL & GAS ROYALTY OWNER: SERAFIN T. ORTIZ,	AS TRUSTEE OF THE	SERAFIN T. O	RTIZ TRUST A	GREEMENT DATED JULY 3	1, 1996 ACREAGE:	±44.949
DRILL DEEPER REDRILL						
CONVERT PLUG & ABANDON	CLEAN OUT & REPLU	G 0	THER CHANGE	SPECIFY)	01/12/	2024
TARGET FORMATION: MARCELLUS				ESTIMATED	DEPTH: 6,303 TVI	D 28,233 TMD

CITY:

REVISIONS:

MORGANTOWN

ELEVATION: (NAVD 88, US FT)

TARGET	FORMATION		.US)	
	DEDATOR			COMBANN	

PROPOSED SURFACE HOLE / BOTTOM HOLE

EXISTING / PRODUCING WELLHEAD

WELL OPERATOR: SWN PRODUCTION COMPANY, ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 STATE:

CODE: SURVEYED BOUNDARY

DRILLING UNIT = = = LEASE BOUNDARY PROPOSED PATH

DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 STATE:

10-31-2023 NO DRAWN BY: DRAWING NO: ACE-3
WELL LOCATION PLAT

EXISTING WATER WELL EXISTING SPRING

MORGANTOWN

CITY:

5:_PROJECT 3048 SWN-SERAFIN ORTIZ PAU TUESDAY OCTOBER 31 2023 03:32PM

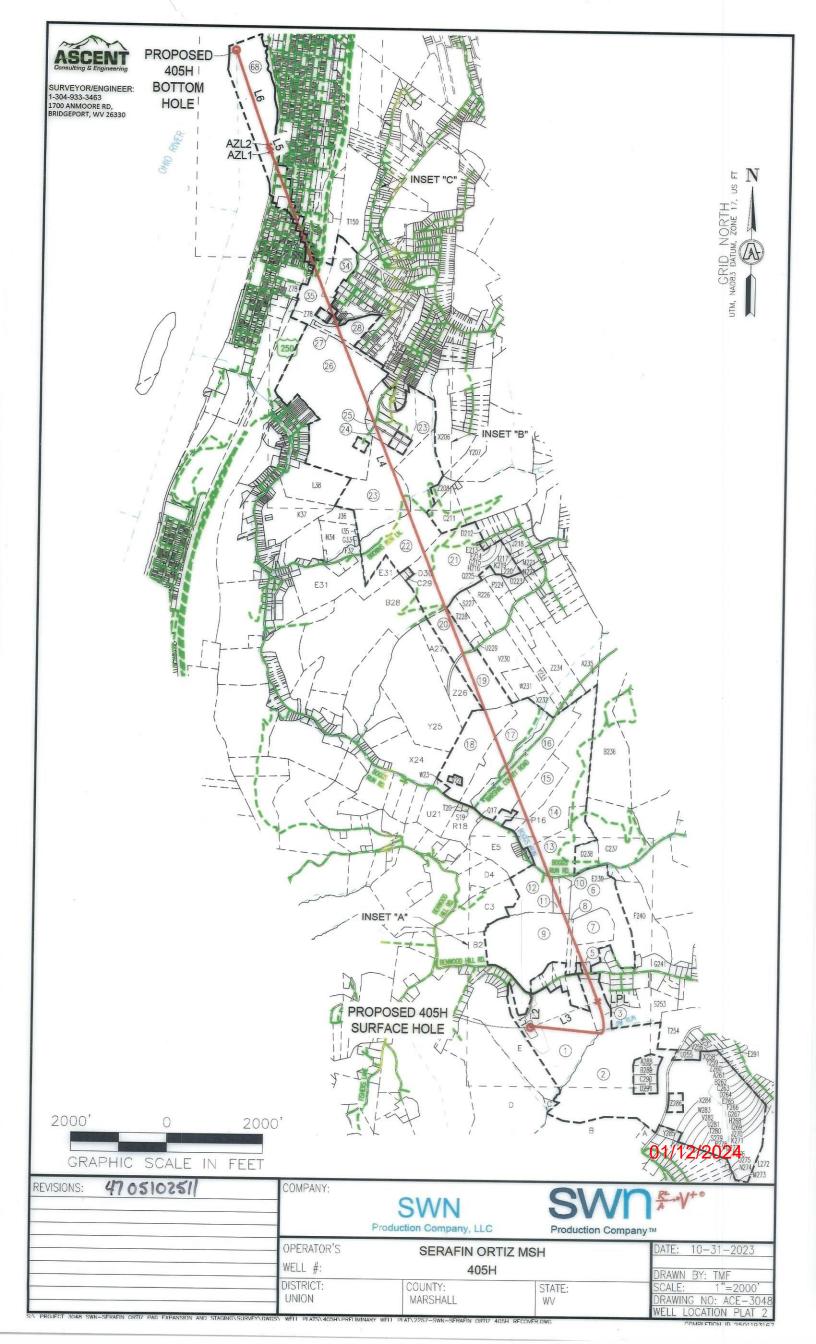
COMPLETION ID 250119316 PAD ID 30011558

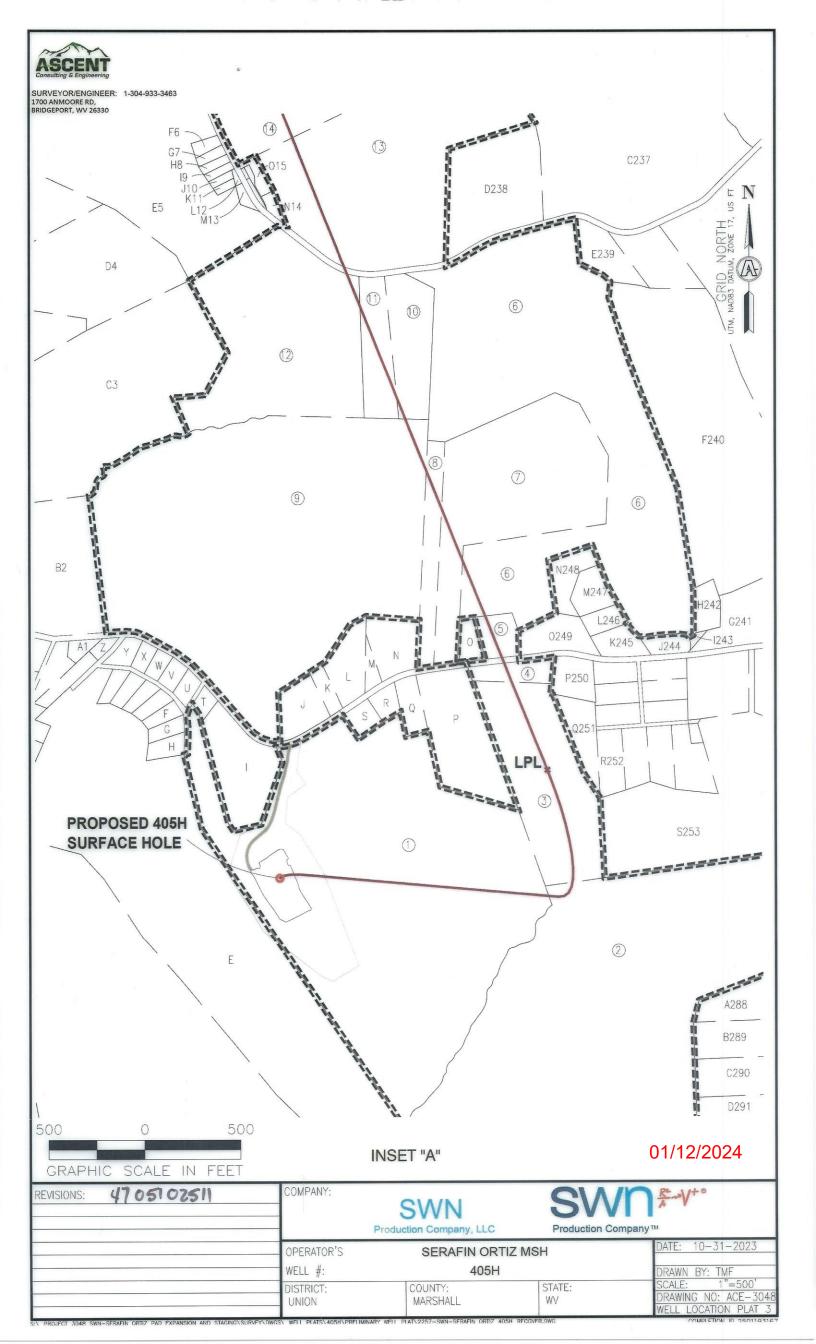
BOTTOM

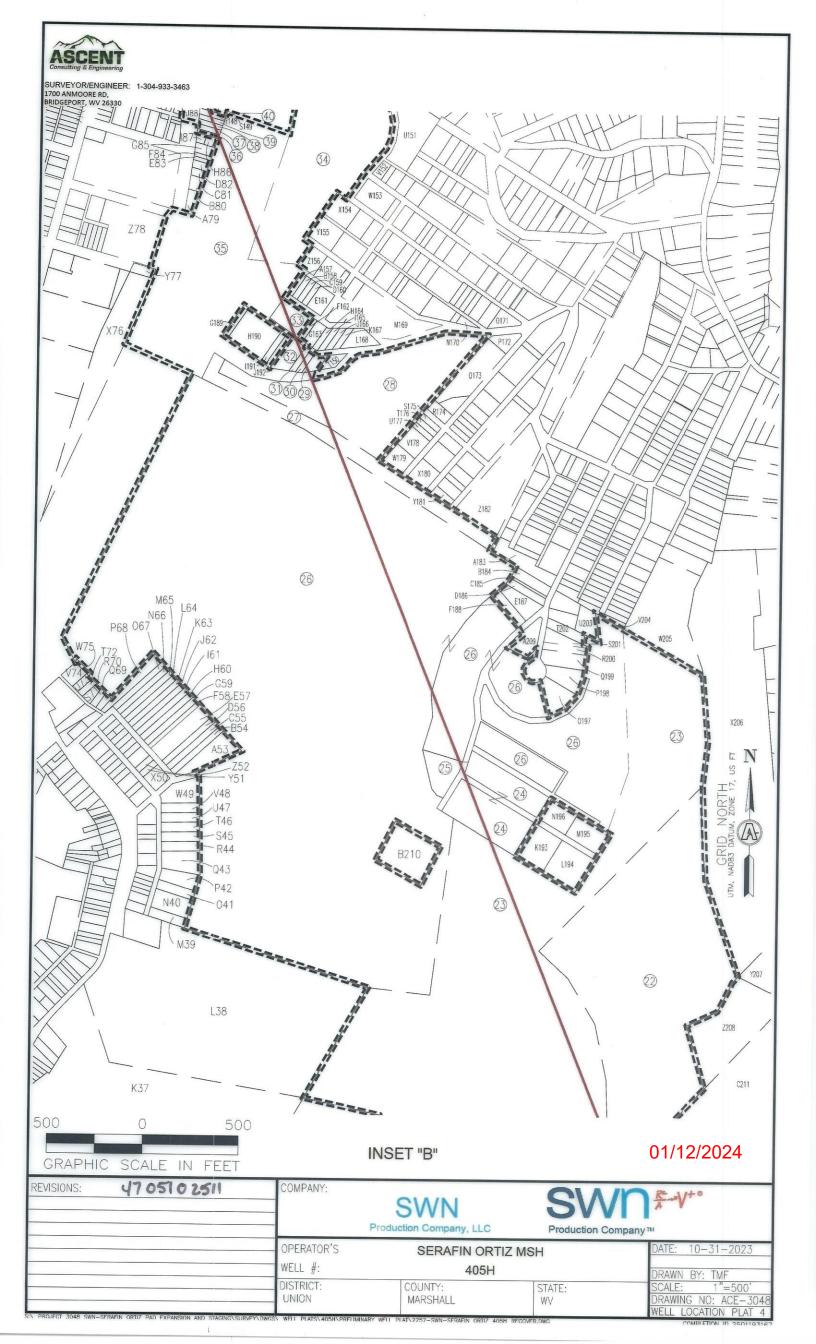
80*42,30"

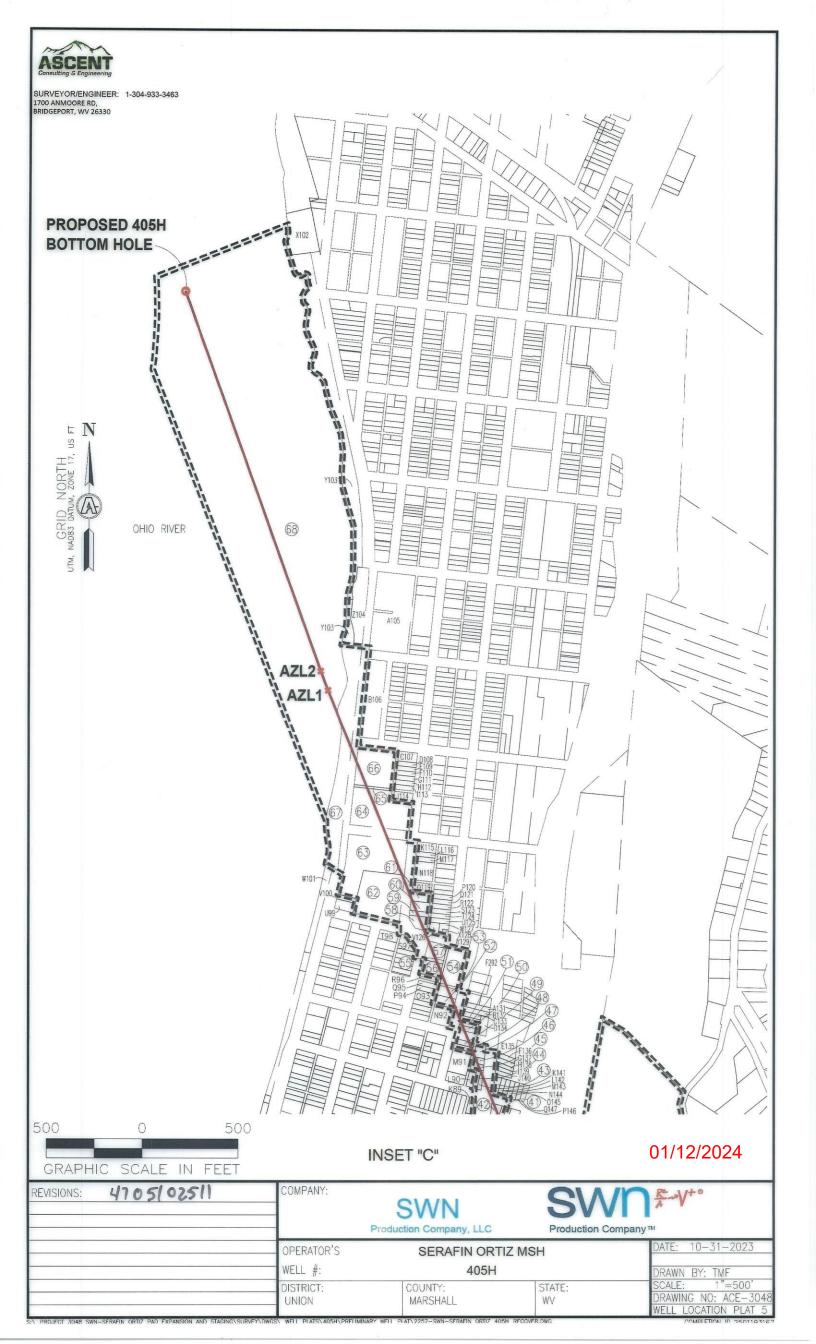
Production Company, LLC Production Company™

405H











SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

RACT	WELL BORE TRACTS SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	LONGWELL FRANK J & LORI A (S) / SERAFIN T. ORTIZ AS TRUSTEE OF THE SERAFIN T. ORTIZ TRUST AGREEMENT DATED JULY 31, 1996 (R)	13-6-49
RACT	SURFACE OWNER (S)	TAX PARCEL
2	KELLER BRIAN J & COOK DAVID J & ALICE M - TOD	13-6-50
3	O'NEAL CYNTHIA	13-6-45
4	O'NEAL CYNTHIA	13-6-44
5	HULL MICHELLE A & THOMAS P MCFARLAND	13-6-23.9
6	HULL JAMES D & GEORGIA M	13-6-23.18
7	SCHERICH LEIGH ANN & SETH ANTHONY RENZELLA	13-6-23.14
8	SCHERICH LEIGH ANN & SETH ANTHONY RENZELLA	13-6-23.17
9	VAN SCYOC PATRICK A & FAITH M	13-6-17
10	LOMBARD DENISE L	13-6-24
11	LOMBARD DENISE L	13-6-16.1
12	WOOD JOHN W ET UX	13-6-16
13	KUBANCIK STANLEY M ET UX	13-5-25
14	KUBANCIK STANLEY M ET UX	13-5-28
15	OHIO COUNTY COAL RESOURCES INC	13-5-29
111111111111111111111111111111111111111	OHIO COUNTY COAL RESOURCES INC	13-5-30
16		13-5-31
17	OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC	13-5-32.1
18		13-5-10
19	OHIO COUNTY COAL RESOURCES INC	13-1-50
20	OHIO COUNTY COAL RESOURCES INC	13-1-30
21	OHIO COUNTY COAL RESOURCES INC	13-1-49
22	OHIO COUNTY COAL RESOURCES INC	
23	OHIO COUNTY COAL RESOURCES INC	13-1-1.1
24	MARKOWICZ JOHN JR ET UX	13-1-1.2
25	SCOTT IRENE R	13-1C-48
26	MARKOWICZ JOHN F JR ET AL	13-1-1.3
27	MARKOWICZ JOHN F JR ET AL	13-1A-1
28	LICHWA MARJORIE V	13-1A-2
29	KITCHEN BERNICE	13-1A-4
30	SIEBIEDA MARION R & MARY ANN - TOD	13-1A-5
31	UNKNOWN	13-1A-6
32	SIEBIEDA MARION R & MARY ANN - TOD	13-1A-7
33	SIEBIEDA MARION R & MARY ANN - TOD	13-1A-12
34	MOZART PARK ASSOCIATION	10-W88-360
35	W VA DEPT OF HIGHWAYS	U.S. 250
36	MILLER ALICIA & BICKMEIER JEREMY	10-W88-285
37	SKRZYPEK STEVEN MICHAEL	10-W88-284
38	SKRZYPEK STEVEN MICHAEL	10-W88-283
39	EWART CHRISTA	10-W88-282
40	EWART JOHN P & A D	10-W88-281
41	KLAMUT NANCY J	10-W88-278
42	SOFKA MICHAELS & J J	10-W88-277
43	DUDEK CASIMER (LIFE ESTATE); DUDEK DAVID	10-W88-225
44	DUDEK CASIMER (LIFE ESTATE); DUDEK DAVID	10-W88-226
45	VUCELICK SAMUEL G JR & SUMER D	10-W88-232
46	VUCELICK SAMUEL G JR & SUMER D	10-W88-233.1
47	TYBURSKI MARY L (LE); TYBURSKI ROBERT S JR	10-W88-233
48	TOM 5 LLC	10-W88-231.1
49	CAMPBELL SAMANTHA M	10-W88-231
50	BLAKE JAMES L & CAROL LAWHORNE	10-W88-259
51	SEXTON KENNETH A SEXTON WILLIAM B	10-W88-258
52	STEVE LOHRI CONTRACTING LLC	10-W88-240
53	STEVE LOHRI CONTRACTING LLC	10-W88-241
1.099/	KHELAWAN VISHAL	10-W88-242
54	KHELAWAN VISHAL	10-W88-242.1
55	BONACCI RENTALS LLC	10-W88-148
56	KHELAWAN VISHAL	10-W88-146
57	CUNNINGHAM KENNETH & ROBB PAULA	10-W84-142
58		10-W84-141
59	VESSELS CARLA	10-W84-141
60	HEIL JAMES B	
61	HOSTUTLER PAMELA - TOD	10-W84-139
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01/12/2024

COMPANY:	SWN Production Company, LLC	SW Production Col	mpany™
OPERATOR'S	SERAFIN OF	RTIZ MSH	DATE: 10-31-2023
WELL #:	405H	4	DRAWN BY: TMF
DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: ACE-3044 WELL LOCATION PLAT 6
	OPERATOR'S WELL #: DISTRICT:	OPERATOR'S SERAFIN OF WELL #: 4051	OPERATOR'S WELL #: DISTRICT: COUNTY: Production Company, LLC Production Con Produ



SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

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SURVEYOR/ENGINEEI 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330

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G189 H190 I191 I191 J192 K193 L194 M195 N196 O197 P198 R200 S201 T202 U203 V204 V204 V207	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31.1 13-1C-32 13-1C-32 13-1C-34 13-1C-34 13-1C-34.1 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3
G189 H190 I191 J192 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 V204 W205	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31.1 13-1C-32 13-1C-32 13-1C-34 13-1C-34 13-1C-34.1 13-1C-34.1 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6
G189 H190 I191 I191 I192 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 V204 W205 X206 Y207 X208 A209	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31 13-1C-32 13-1C-32 13-1C-34 13-1C-34 13-1C-34 13-1C-34 13-1C-37.2 13-1A-121.1 13-1A-121.1 13-1A-121.1
G189 H190 I191 I191 J192 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 V204 W205 X206 X206	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31.1 13-1C-31.1 13-1C-32 13-1C-34 13-1C-34 13-1C-34 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-149 13-13-13-13-13-13-13-13-13-13-13-13-13-1
G189 H190 I191 I191 I192 K193 L194 K193 L194 M195 N196 O197 P198 R200 S201 T202 U203 V204 W205 X206 Y207 Z208 RA209 RB210 CC211	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC BRITTON ROBERT JR MESSHAM ROWAN L & DEBORAH S	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31 13-1C-31.1 13-1C-32 13-1C-34 13-1C-34 13-1C-34 13-1C-34 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1-28 13-1-1
G189 H190 I191 I191 I192 K193 L194 W195 N196 O197 P198 Q199 R200 S201 T202 U203 W204 W205 X206 X207 Z208 A209 B3210 C2211	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC BRITTON ROBERT JR MESSHAM ROWAN L & DEBORAH S OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31.1 13-1C-31.1 13-1C-32 13-1C-34 13-1C-34 13-1C-34.1 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1C-28 13-1-1-39 13-1-66.1
G189 H190 I191 I191 I192 K193 L194 W195 N196 O197 P198 Q199 R200 S201 T202 U203 W204 W205 X206 X207 Z208 A209 B3210 C211 D212 E213	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIES & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC BRITTON ROBERT JR MESSHAM ROWAN L & DEBORAH S OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-31.1 13-1C-31.1 13-1C-32 13-1C-34 13-1C-34 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1-28 13-1-1 13-1-39 13-1-66.1 13-1-49.2
G189 H190 I191 I191 I192 K193 L194 K193 L194 M195 N196 O197 P198 R200 S201 T7202 U203 W204 W205 X206 Y207 Z208 RA209	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIES & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC BRITTON ROBERT JR MESSHAM ROWAN L & DEBORAH S OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-13 13-1C-31.1 13-1C-32 13-1C-34 13-1C-34 13-1C-34 13-1C-34 13-1C-36 13-1A-121.1 13-1A-149 13-13 13-1-6 13-1-38 13-1-6 13-1-38 13-1-1-28 13-1-1-39 13-1-66.1 13-1-49.2 13-1-49.4
G189 H190 I191 I191 J192 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 X206 Y207 Z208 A209 B210 C211 D212 E213 F214 G215	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIES & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC BRITTON ROBERT JR MESSHAM ROWAN L & DEBORAH S OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-13 13-1C-31.1 13-1C-32 13-1C-33 13-1C-34 13-1C-34 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1-C-28 13-1-1 13-1-39 13-1-66.1 13-1-49.2 13-1-49.4 13-1-49.3
G189 H190 I191 I191 I192 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 V204 W205 X206 Y207 Z208 A209 B210 C211 D212 E213 F214	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-13 13-1C-31.1 13-1C-32 13-1C-33 13-1C-34 13-1C-34 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1-6 13-1-38 13-1-6 13-1-39 13-1-66.1 13-1-49.2 13-1-49.4 13-1-49.3 13-1-65.1
G189 H190 I191 I192 K193 L194 K193 L194 M195 N196 O197 P198 Q199 R200 S201 T202 U203 X206 Y207 Z208 R209 B210 C211 D212 E213 F214 S215 H216	JACKSON NORMAN JR HAWKEY RICHARD L ET UX UNKONWN OWNER UNKNOWN OWNER MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC MOZART MIDGET LEAGUE INC TOLPA MICHAEL H ET UX ROTRIGA KEVIN L & DEBORAH L WHITMIRE KEVIN & HEATHER HICKS RHONDA M & DONNA LEGGETTE BRITTON ROBERT D JR YOUNG CARRIE MCDOWELL DONNA JEAN ET VIR DOUGHERTY LAINIE S & VUNDERINK JEFFREY L OHIO COUNTY COAL RESOURCES INC	13-1A-11 13-1A-10 13-1A-9 13-1A-8 13-1C-5 13-1C-6 13-1C-14 13-1C-13 13-1C-31.1 13-1C-32 13-1C-33 13-1C-34 13-1C-34 13-1C-34.1 13-1C-36 13-1C-37.2 13-1A-121.1 13-1A-149 13-1-3 13-1-6 13-1-38 13-1-C-28 13-1-1 13-1-39 13-1-66.1 13-1-49.2 13-1-49.4 13-1-49.3

01/12/2024

470510251 REVISIONS: COMPANY: SWN Production Company, LLC Production Company™ DATE: 10-31-2023 OPERATOR'S SERAFIN ORTIZ MSH WELL #: 405H DRAWN BY: TMF DISTRICT: UNION SCALE: N/A
DRAWING NO: ACE - 3048
WELL LOCATION IN SECURITY COUNTY: MARSHALL STATE: PLAT\2257-SWN-SFRAFIN ORTIZ 405H RECOVE



SURVEYOR/ENGINEER: 1-304-933-3463

TRACT SURFACE OWNER TAX PARCEL L220 OHIO COUNTY COAL RESOURCES INC M221 OHIO COUNTY COAL RESOURCES INC 13-1-59 N222 OHIO COUNTY COAL RESOURCES INC 13-1-71.2 0223 OHIO COUNTY COAL RESOURCES INC 13-1-54.1 P224 OHIO COUNTY COAL RESOURCES INC 13-1-53 Q225 OHIO COUNTY COAL RESOURCES INC 13-1-49.1 R226 OHIO COUNTY COAL RESOURCES INC. 13-1-52 OHIO COUNTY COAL RESOURCES INC S227 13-1-51 T228 OHIO COUNTY COAL RESOURCES IN U229 OHIO COUNTY COAL RESOURCES INC 13-1-51.3 V230 OHIO COUNTY COAL RESOURCES INC 13-5-10.3 W231 OHIO COUNTY COAL RESOURCES INC 13-5-10.2 X232 OHIO COUNTY COAL RESOURCES INC 13-5-10.1 Y233 OHIO COUNTY COAL RESOURCES INC 13-5-11 CONSOLIDATION COAL COMPANY MURRAY Z234 13-5-12.2 ENERGY C/O LAND DEPT CONSOLIDATION COAL COMPANY MURRAY A235 13-5-13.1 **ENERGY C/O LAND DEPT** OHIO COUNTY COAL RESOURCES INC B236 13-5-14 C237 KUBANCIK RITA C - LIFE 13-5-23 D238 13-5-24 E239 **HULL GAYLERD E** 13-6-26 F240 HULL GAYLERD F & SHARON L 13-6-23.20 G241 **HULL GAYLERD F & SHARON L** 13-6-23.13 H242 **HULL GEORGE JEFFREY** 13-6-23.10 1243 HULL GEORGE J 13-6-23.15 J244 **HULL JAMES D & JAMES D JR** 13-6-23 K245 HULL JAMES D & GEORGIA M 13-6-23.16 L246 **HULL JAMES DAVID ET UX** M247 HULL JAMES DAVID JR ET UX 13-6-23.5 N248 **HULL JAMES D JR & LORI ANN** 13-6-23.12 0249 HULL JAMES DET UX 13-6-23.3 P250 SATTY IRENE 13-6-43 Q251 BERLETCH RICHARD ET UX 13-6-45.1 R252 **HUGHES ROBERT ALLEN** 13-6C-9 S253 **HULL GAYLERD F & SHARON** 13-6-23.11 T254 **CALDWELL CHRISTIAN A** 13-7-1.1 U255 KELLER BRIAN J & JANET 13-6-50.5 V256 **HECKMAN FLORA BELLE** 13-7C-18 W257 VANNEST ALEX M & HOWARD ALLIE R 13-7C-17 X258 COX MARY FRANCES EST 13-7C-10 Y259 HARBISON WALTER LET UX 13-7C-8 Z260 RENZELLA PATRICIA R 13-7C-7 A261 DEL RE MARVIN E ET UX B262 NEMCOSKY ROBERT LET UX 13-7C-5 C263 PEACE NATHANIEL O & ELAINE M 13-7C-4 D264 PEACE NATHANIEL O & ELAINE M 13-7C-3 E265 NOVICK RYAN J & ALEXANDRA P 13-7C-2 F266 ELSON LINDA S & SAMUEL F 13-7C-1 G267 SEACHRIST MARGARET TURNER 13-7-44 H268 SEACHRIST MARGARET TURNER 13-7-45 1269 YOUNG MICHAEL DET UX 13-7-51 J270 YOUNG MICHAEL DET UX 13-7-50 K271 ALLEN RICHARD C ET UX 13-7-52 L272 VARGO CINDY LET AL M273 MARSHALL LAND LLC 13-10-2 N274 MOOSMAN MATTHEW G 13-10A-14 0275 WARD DEREK J 13-10A-13 P276 **HUNTER WILLIAM D & MARLENE** 13-10A-12 Q277 HILL PATRICIA J 13-10A-11 R278 HILL PATRICIA J S279 HILL PATRICIA J 13-10A-9 T280 KANE VERONICA A 13-10A-8 U281 HULL GAYLERD E 13-10A-7 V282 **BRANNAN BRICIE GREER** 13-10A-6 W283 MCCLURE DEVAN & LINDSEY CAIN 13-10A-5

HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

TRACT	SURFACE OWNER	TAX PARCEL
X284	FECAT WALTER J JR ET UX	13-10A-4
Y285	BRAUTIGAN RANDY & KAYLA	13-6-50.7
Z286	KELLER WILLIAM J - TOD	13-6-50.2
A287	BURKE ANDREA M & JAMES D	13-6-50.6
B288	COOK DAVID J & ALICE - TOD	13-6-50.8
C289	COOK STEVEN M & SHANNON R	13-6-50.3
D290	COOK SUZANNE	13-6-50.4
E291	HARBISON WALTER LET UX	13-7C-9
F292	PLATT WILLIAM H	10-W88-257

*HIGHLIGHTED PARCELS MAY BE IMPACTED DURING DRILLING.

01/12/2024

REVISIONS:	4765102511	COMPANY:	SWN Production Company, LLC	SW Production Com	on Company™		
		OPERATOR'S WELL #:	SERAFIN ORT 405H	IZ MSH	DATE: 10-31-2023 DRAWN BY: TMF		
		DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: ACE-304 WELL LOCATION PLAT 9		

Operator's Well No. SERAFIN ORTIZ MSH 405H

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"



*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission.

*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:

Aulu M. Suit

Its:

Rotational Landman

Page 1 of _____

4705102511

EXHIBIT "A" Serafin Ortiz MSH 405H

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 Marshall County and Ohio County, West Virginia

13-6-49 725464/000 Serafin 1, Onts and Muntin 6, Onts and whith a C, Onts, husband and whife Chrespeake Appalachia, LLC		Tax Parcel	Lease Number	Lessor	Lessee	Royalty	Book/Page	% Interest Not Leased	
725465/001 David J. Cook, married, dealing in his sole and separate interest Chesapeake Appalachia, L.L.C. 14,00% 684/547	\leftarrow	3-6-49	725464/000		Chesapeake Appalachia, L.L.C.	14.00%	683/84	by SWN 0.00%	
725465/001 David J. Cook, married, dealing in his sole and separate interest Chesapeake Appalachia_LLC. 14,00% 684/547	1			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
Chesapeake Appalachia, L.L. SWN Production Company, LL 14,00% 683/433		13-6-50	725465/001	David J. Cook, married, dealing	Chesapeake Appalachia, L.L.C.	14.00%	684/547	0.00%	
725465/002				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 1250% 678/202 Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/202 725258/003 Judy Penick, married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 33/110 725258/004 Charles E. Borchart, Jr., married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/208 725258/005 Jeffrey A. Borchart, Jr., married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/208 725258/005 Jeffrey A. Borchart, Jr., married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/208 725258/005 Jeffrey A. Borchart, Single Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/200 725258/001 Eleanor Cross, Single Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/520 725258/001 Eleanor Cross, Single Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. 12.50% 678/520			725465/002			14.00%	683/433	0.00%	
25258/002 Alyn Robin Burkhart, married Chesapeake Appalachia, L.L.C. 12.50% 678/202				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
Chesapeake Appalachia, L.L.C. Judy Penick, married Chesapeake Appalachia, L.L.C. Charles E. Borchart, Jr., married Chesapeake Appalachia, L.L.C. Charles E. Borchart, Jr., married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. Jeffrey A. Borchart, single Chesapeake Appalachia, L.L.C. SWN Production Company, LLC.		13-6-45	725258/002		Chesapeake Appalachia, L.L.C.	12.50%	678/202	%000	
Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC Jeffrey A. Borchart, single Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC 33/110				Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110		
Charles E. Borchart, Jr., married Chesapeake Appalachia, L.L.C. Charles E. Borchart, Jr., married Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC.			725258/003	Judy Penick, married	Chesapeake Appalachia, L.L.C.	12.50%	678/205	0.00%	
Chesapeake Appalachia, L.L.C. Jeffrey A. Borchart, Jr., married Chesapeake Appalachia, L.L.C. Jeffrey A. Borchart, Jr., married Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Compan					SWN Production Company, LLC		33/110		
Chesapeake Appalachia, L.L.C. Jeffrey A. Borchart, single Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Eleanor Cross, single Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC 33/110						12.50%	678/208	0.00%	
Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Eleanor Cross, single Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC 33/110 33/110			2		SWN Production Company, LLC		33/110		
Chesapeake Appalachia, L.L.C. Eleanor Cross, single Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWNN Production Company, LLC SWNN Production Company, LLC 33/110			725258/005			12.50%	678/211	0.00%	
Chesapeake Appalachia, L.L.C. 12.50% 678/520 Chesapeake Appalachia, L.L.C. 12.50% 678/520 SWN Production Company, LLC 33/110					SWN Production Company, LLC		33/110	4 4	Roll A
SWN Production Company, LLC		7		Office		12.50%	678/520		1 1
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13-6-24 732017/002 Rinder A Davis unmarried Chesapeake Appalachia, LLC SWN Production Company, LLC 33/110	0.00%		0.00%		33.33%	0.00%		%UU U		0.00%			%00.0	%00.0		0.00%	00.00	0.00%		
13-6-23-9	749/567	33/110	754/293	33/110	N/A	718/476	33/110	678/30	33/110	678/30	33/110	00/000	33/110	681/443	33/110	1137/488	1137/488	692/482	33/110	
Chesapeake Appalachia, L.L.C. 732017/002 Rudolph Conti, Jr., single Chesapeake Appalachia, L.L.C. Salasia 723397/000 Patrick A. Van Scyoc and Faith M. Van Sycoc, husband and wife Contespeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Salasia 725364/000 Denise L. Lombard, single 13-6-17 725364/000 Denise L. Lombard, single Salasia 726095/000 John W.W.Wood and Peggy A. Wood, married, as Joint Tenants with Chesapeake Appalachia, L.L.C. Salasia 726095/000 John W.W.Wood L.L.C. Salasia 726095/000 John W.W.W.Wood John W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.W.	18.00%		18.00%		N/A	18.00%		12.50%		12.50%		13 60%	0/00	12.50%		18.00%	18.00%	14.00%		
Chesapeake Appalachia, L.L.C. 732017/002 Rudolph Conti, Jr., single Chesapeake Appalachia, L.L.C. (Subject to unitration filing dated November 10, 2023) 13-6-23.18 724963/000 Lula E. Hull, a widow Chesapeake Appalachia, L.L.C. 13-6-23.14 724963/000 Lula E. Hull, a widow Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. 13-6-23.17 724963/000 Lula E. Hull, a widow Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. 13-6-17 725364/000 Patrick A. Van Scyoc and Faith M. Van Sycoc, husband and wife Chesapeake Appalachia, L.L.C. 13-6-17 725364/000 Denise L. Lombard, single 13-6-16 1 783797/000 Denise L. Lombard, single 13-6-16 1 786095/000 John W.Wood and Peggy A. Wood, married, as Joint Tenants with Rights of Survivorship Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	N/A	Chesapeake Appalachia L.L.C.	SWN Production Company, LLC	Chesapeake Appalachia L.L.C.	SWN Production Company, LLC	Chesapeake Appalachia L.L.C.	SWN Production Company, LLC	Chesapeake Appalachia I. I. C	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	Chesapeake Appalachia, LLC	SWN Production Company, LLC	
	/3201//001	Chesapeake Appalachia, L.L.C.		Chesapeake Appalachia, L.L.C.		13-6-23.9 728306/000	Chesapeake Appalachia, L.L.C.	724963/000	Chesapeake Appalachia, L.L.C.		Chesapeake Appalachia, L.L.C.	724963/000	Chesapeake Appalachia, L.L.C.	725364/000 Patrick A. Van Scyoc and Faith	Chesapeake Appalachia, L.L.C.	783797/000	783797/000	726095/000 John W. Wood and Peggy A. Wood, married, as Joint Tenants with Rights of Survivorship	- 2	òπ

0.00%		0.00%		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%			0.00%	0.00%	0.00%	14.00%	0.00%	0.00%
720/365	33/110	720/365	33/110	1156/144	1156/144	1156/144	1156/144	1156/153	1156/144	965/305	43/497	1093/34	1134/437	1134/645	1129/378	N/A	1156/144	1156/144
18.00%		18.00%		18.00%	18.00%	18.00%	18.00%	18.00%	18.00%	20.00%			18.00%	18.00%	18.00%	N/A	18.00%	18.00%
vife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	vife Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	TH Exploration, LLC	American Petroleum Partners	Operating, LLC SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	N/A	SWN Production Company, LLC	SWN Production Company, LLC
wite and wife	Chesapeake Appalachia, L.L.C.	728793/000 Stanley M. Kubancik and Tabitha Lynn Kubancik, husband and wife Chesapeake Appalachia, L.L.C.	Chesapeake Appalachia, L.L.C.	784402/000 CNX Gas Company LLC, a Virginia limited liability company	784402/000 CNX Gas Company LLC, a Virginia limited liability company	784402/000 CNX Gas Company LLC, a Virginia limited liability company	. 784402/000 CNX Gas Company LLC, a Virginia limited liability company	784404/000 CNX Gas Company LLC, a Virginia limited liability company	784402/000 CNX Gas Company LLC, a Virginia limited liability company	751396/001 Bounty Minerals, LLC	TH Exploration, LLC	American Petroleum Partners Operating, LLC	784047/000 Susan Reese, single	784045/000 Pat Lacock, single	783468/002 A. R. Walker, widower	N/A Royalty Owner (subject to unitization filing dated November 10, 2023)	784402/000 CNX Gas Company LLC, a Virginia limited liability company	784402/000 CNX Gas Company LLC, a Virginia limited liability company
		13-5-28		13-5-29	13-5-30	13-5-31	13-5-32.1	13-5-10	13-1-50	13-1-49							13-1-2	13-1-1.1
\		14		15		/ 17	/ 18	19	/20	/ 21						00	77	73

		IH Exploration, LLC	18.00%	952/415	0.00%
	TH Exploration, LLC	SWN Production Company, LLC		488/263	
9	783240/001 Marilyn J. Snyder a/k/a Marilyn M. Snyder and William S. Snyder, S wife and husband	SWN Production Company, LLC	18.00%	1123/176	0.00%
35/	and Martina Markowicz, husband and wife	TH Exploration, LLC	18.00%	926/193	0.00%
	TH Exploration, LLC	SWN Production Company, LLC		48/263	
35/	Marilyn J. Snyder, a/k/a Marilyn M. Snyder, and William S. Snyder, wife and husband	SWN Production Company, LLC	18.00%	1123/174	0.00%
751435/001	John Markowicz, and Martina Markowicz, husband and wife	TH Exploration, LLC	18.00%	926/193	0.00%
783240/001	Marilyn J. Snyder a/k/a Marilyn M. Snyder and William S. Snyder, wife and husband	SWN Production Company, LLC	18.00%	1123/176	0.00%
784617/000	Donnie T. Lichwa, individually, and as Trustee of the Marjorie Lichwa Testamentary Trust FBO Lonnie W. Lichwa, and Lonnie W	SWN Production Company, LLC	18.00%	1140/577	0.00%
N/A		N/A	N/A	N/A	100.00%
N/A		N/A	N/A	N/A	100 00%
N/A	(Subject to unitization filing dated November 10, 2023) Rovalty Owner	V)			100.00%
	ization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
N/A	Royalty Owner (Subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
		N/A	N/A	N/A	100.00%
N/A		N/A	N/A	N/A	100.00%
N/A		N/A	N/A	N/A	100.00%
Pending	LAS Construction & Facility State of the Sta	SWN Production Company, LLC	18.00%	1053/572	0.00%
Pending	iek, a marfied man dealing in his sole and	SWN Production Company, LLC	18.00%	1053/577	0.00%
Pending		SWN Production Company, LLC	18.00%	1053/577	0.00%
Pending	Christa D. Ewart Newby, a married woman dealing in her sole and SW	SWN Production Company, LLC	18.00%	1050/73	0.00%

100.00%	100.00%	0.00%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	%00.0	100.00%	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%	100.00%	%00.0
N/A	N/A	1043/684	N/A	N/A	1050/89	1050/89	1053/561	1052/485	N/A	1048/443	N/A	1053/68	1053/68	1048/686	1048/686	N/A	1048/686	N/A	1048/504
N/A	N/A	17.00%	N/A	N/A	18.00%	18.00%	18.00%	17.00%	N/A	18.00%	N/A	18.00%	18.00%	18.00%	18.00%	N/A	18.00%	N/A	18.00%
W/N	N/A	SWN Production Company, LLC	N/A	N/A	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	N/A	SWN Production Company, LLC	N/A	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	SWN Production Company, LLC	N/A	SWN Production Company, LLC	N/A	SWN Production Company, LLC
dated November 10, 2023)	ited November 10, 2023)	Judith J. Sofka, individually, and Judith J. Sofka and Michael S. Sofka, wife and husband, as joint tenants with rights of	ated November 10, 2023)	ted November 10, 2023)	. Vucelick, wife and husband	Vucelick, wife and husband	man		d November 10, 2023)		November 10, 2023)	ling in his sole and separate	ling in his sole and separate			ovember 10, 2023)	(O.C.) 2023)	November 10, 2023)	
(subject to unitization filing dated November 10, 2023)			Royalty Owner (subject to unitization filing dated November 10, 2023)	Royalty Owner (subject to unitization filing dated November 10, 2023)	Sumer D. Vucelick & Samuel G. Vucelick, wife and husband	Sumer D. Vucelick & Samuel G.	Robert S. Tyburski Jr., a single	Tom 5 LLC	Royalty Owner (subject to unitization filing dated November 10, 2023)	James Blake & Carol Lawhorne	Royalty Owner (subject to unitization filing dated November 10, 2023)	Earl P. Huffner, a married man dealing in his sole and separate property	Earl P. Huffner, a married man dealing in his sole and separate property	West Rentals, INC	West Rentals, INC	Royalty Owner (subject to unitization filing dated November 10, 2023)	West Rentalg INC ම	Royalty Owner (subject to unitization filing dated November 10, 2023)	Carla Vessels, single
A L L A	N/A	Pending	N/A	N/A	Pending	Pending	Pending Robert S. Tyburski Jr., a single	Pending	N/A	Pending	N/A	Pending	Pending		.1 Pending	N/A	Pending	N/A	Pending
A L L A	N/A	Pending	N/A	N/A	Pending		Robert S. Tyburski Jr., a single	.1 Pending	N/A	Pending	N/A	Pending	Pending		.1 Pending	N/A	Pending	N/A	

2	100.00%	100.00%	%UU U		0.00%	100.00%	100.00%	100 00%	%0000 %0000	%00.0 %00.0	0.00.0	0.00%		0.00%		100.00%	100.00%	100.00%	100 000%	0/00:001	100.00%	0.00%	0.00%	%UU U	
יייייייייייייייייייייייייייייייייייייי	N/A	N/A	1052/627	1052/637	170/700	N/A	N/A	N/A	1042/492	1051/59 (Ohio)	1170/693 (Marshall)	678/30	33/110	1156/153		N/A	N/A	N/A	N/A		N/A	1053/305	1043/702	1043/653	
	N/A	N/A	18.00%	18.00%		N/A	N/A	N/A	17.00%	20.00%		18.00%		18.00%		N/A	N/A	N/A	N/A		N/A	18.00%	17.00%	17.00%	
V/ 14	N/A	N/A	SWN Production Company, LLC	SWN Production Company, LLC			N/A	N/A	SWN Production Company, LLC	SWN Production Company, LLC		Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	SW/N Production Company, LLC	V/N	N/A	N/A	N/A	N/A	\(\frac{1}{2}\)	IN/A	SW/N Production Company, LLC	SWIN Production Company, LLC	SWN Production Company, LLC	
Royalty Owner	(subject to unitization filing dated November 10, 2023)	Royalty Owner (subject to unitization filing dated November 10, 2023)		Wheeling Power Company	Royalty Owner	(subject to unitization filing dated November 10, 2023)	(Subject to unitization filing dated November 10, 2023)	Royalty Owner (Suffice deed N	Bellaire Harbor Service, LLC	State of West Virginia, Department of Commerce, Division of			Chesapeake Appalachia, L.L.C.) CNX Gas Company LLC, a Virginia limited liability company	Royalty Owner	(subject to unitization filing dated November 10, 2023)	Koyalty Owner (subject to unitzation filing dated November 10, 2023)	Royalty Owner (subject to unitization filing dated November 10, 20,2)	Royalty Owner (St. March 1997)	Recoject to unitization filing dated November 10, 2023) Royalty Owner	(subject to unitization filing dated November 10, 2023)	city of woneeling	Catherine A. Prascik, single	Linda C. Wiley, single	
N/A	1	N/A	Pending	Pending	N/A	N/A		N/A	Pending	Pending	724963/000			784404/000	N/A	VI /V	N/N	N/A	N/A	N/A	Pending	30	Pending	Pending	
10-W84-140	00 MOM 01	10-W84-139	10-W84-50	10-W84-44	10-W84-43	10-W84-348		10-W84-42	10-W84-346	Ohio River	13-6-23.19			13-5-9	10-W88-287	10.W/99 70G		=	10-W88-223	10-W88-227	10-W88-230		10-W88-239 F	10-W88-150 F	
09	13	10	62	63	64	65		99	67	89	0 /		1	77.6	G85	/ H&6	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	188	067 /	/ M91		76N 114	36 37 30 30 30 30	2

Marshall County and Ohio County, West Virginia

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DOG 10 1410						
10-W88-149	8-149 Pending	g Linda C. Wiley, single	SWIN Production Company, LLC	17.00%	1043/653	0.00%
10-W88-136	8-136 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100,00%
10-W88-138	8-138 Pending		SWN Production Company, LLC	17.00%	1043/678	0.00%
10-W88-142	8-142 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
10-W8	Η.		N/A	N/A	N/A	100,00%
10-W88-250	8-250 Pending	Tom 5 LLC	SWN Production Company, LLC	17.00%	1052/485	0.00%
10-W88-253	8-253 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100,00%
10-W88-254	8-254 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
10-W88-256		Royalty Owner (subject to unitization filing d	N/A	N/A	N/A	100.00%
10-W88-255	3-255 Pending	; Wade R. Reinhardt, single	SWN Production Company, LLC	17.00%	1043/659	0.00%
10-W88-273	3-273 Pending	Wade R. Reinhardt, single	SWN Production Company, LLC	17.00%	1043/659	0.00%
10-W88-274		Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	A/N	N/A	100.00%
10-W88-275	8-275 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
10-W88-279	-279 Pending		SWN Production Company, LLC	17.00%	1050/377	%00.0
10-W88-280	-280 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
10-W85-22	-22 Pending		SWN Production Company, LLC	18.00%	1052/331	0.00%
13-1A-25.1	E,	Royalty Owner (Subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
13-1A-13		Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%
13-1A-14		Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100,00%
13-1A-10	0 N/A	Royalty Owner (subject to unitization filing dated November 10, 2023)	N/A	N/A	N/A	100.00%

EXHIBIT "A"

Serafin Ortiz MSH 405H

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 Marshall County and Ohio County, West Virginia

1191	13-1A-9	Pending	Wheeling Power Company	SWN Production Company, LLC	18,00%	1052/627	0.00%
1192	1192 13-1A-8	Pending	Wheeling Power Company	- Control			
				SWN Production Company, LLC	18.00%	1052/627	0.00%
T228	T228 13-1-51.1	784402/000	7/84407/000 CNY Gas Commany 11/5 a Windian In the main				
			Constant of the second of the	SWN Production Company, LLC	18.00%	1156/144	0.00%
F292	F292 10-W88-257 Pending	Pending	William H. Platt & Tracy Blatt Living				
		0	Transfer of Flaut, IIIs Wille	SW/N Production Company, LLC	18.00%	1052/480	%00'0

*Horizontal well unit utilization - Subject to unitization filing with the West Virginia Oil and Gas Conservation Commission. *Potentially Impacted Parcels - Parcels that may be impacted during drilling.



November 15, 2023

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

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

RE: SWN's proposed New Well: Serafin Ortiz MSH 405H in Marshall & Ohio Counties, West Virginia, Drilling under Benwood Hill Road, Boggs Run Road, Marshall County Road, Virginia Park Road, Hall Street, US 250 (State Route 2), Wetzel Street, McColloch Street, Lane G West Side, 45th Street, 44th Street, 43rd Street, 42nd Street, Wood Street, Lane F, Jacob Street, and Water Street.

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 Benwood Hill Road, Boggs Run Road, Marshall County Road, Virginia Park Road, Hall Street, US 250 (State Route 2), Wetzel Street, McColloch Street, Lane G West Side, 45th Street, 44th Street, 43rd Street, 42nd Street, Wood Street, Lane F, Jacob Street, and Water Street. Please be advised that SWN has attempted to lease all mineral owners under said route as it relates to the above-referenced well and unit. In several instances, SWN successfully obtained leases of the acreage underlying the road. Any remaining unleased roadway acreage has been included in SWN's pending forced-pooling (unitization) application which was filed with the WV OGCC on November 10, 2023 for the Serafin Ortiz North C Unit (Docket No. 335-356). We expect that all roadway acreage will be effectively under SWN's operational control following the issuance of an Order by the OGCC after the planned December 14 hearing.

Thank you.

Sincerely,

Andrew M. Smith, RL Rotational Landman

Anha M. Suits

SWN Production Company, LLC

Office of Oil and Gas

Office of Oil and Gas

DEC 0 5 2023

R2 2V+°

WW-PN (11-18-2015)

Horizontal Natural Gas Well Work Permit Application Notice By Publication

Notice is hereby given:

Pursuant to West Virginia Code 22-6A-10(e) prior to filing an application for a permit for a horizontal well the applicant shall publish in the county in which the well is located or is proposed to be located a Class II legal advertisement

onem publish in the country in which the well i	is located or i	s proposed to be	e located a Class II legal advertisement.
Paper: Moundsville Daily Echo	a		
Public Notice Date: July 6, 2023 & July 13,	2023		
The following applicant intends to apply for surface excluding pipelines, gathering lines at any thirty day period.	a horizontal r nd roads or u	natural well won	rk permit which disturbs three acres or more of n two hundred ten thousand gallons of water in
Applicant: SWN Production Company, LLC		Well Nun	nber: Serafin Ortiz MSH 405H
Address: 1300 Fort Pierpont Dr., Suite 201			
Morgantown, WV 26508			
Business Conducted: Natural gas production	n.		
Location –			
State: West Virginia District: Union	<u></u>	County: Quadrangle:	Marshall Moundsville
UTM Coordinate NAD83 Northing:	4,426,774	_ Quadrangle.	DEC 05 35
UTM coordinate NAD83 Easting: Watershed: Upper Ohio Wheeling	524,992	Envi	WV Desirance of
Coordinate C		165°A	of Fotection

Coordinate Conversion:

To convert the coordinates above into longitude and latitude, visit: http://tagis.dep.wv.gov/convert/llutm_conus.php

Electronic notification:

To receive an email when applications have been received or issued by the Office of Oil and Gas, visit http://www.dep.wv.gov/insidedep/Pages/DEPMailingLists.aspx to sign up.

Reviewing Applications:

Copies of the proposed permit application may be reviewed at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE Charleston, WV 25304 (304-926-0450). Full copies or scans of the proposed permit application will cost \$15, whether mailed or obtained at DEP headquarters. Copies may be requested by calling the office or by sending an email to <u>DEP.comments@wv.gov</u>.

Submitting Comments:

Comments may be submitted online at https://apps.dep.wv.gov/oog/comments/comments.cfm, or by letter to Permit Review, Office of Oil and Gas, 601 57th Street, SE Charleston, WV 25304. Please reference the county, well number, and operator when using this option.

Regardless of format for comment submissions, they must be received no later than thirty days after the permit application is received by the Office of Oil and Gas.

For information related to horizontal drilling visit: www.dep.wv.gov/oil-and-gas/pages/default.aspx

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

	v = 1	NOTICE CERTIFICATION	N.		E0000000000000000000000000000000000000
Date of Noti	ce Certification: 24				
21100111001	ce cer uneation.		PI No. 47-		
	•	O_1	perator's V	Well No. Ser	afin Ortiz MSH 405H
Notice has l	haan givan	W	ell Pad Na	me: Serafir	Ortiz
Pursuant to the	ne provisions in West Vissis is C. 1	0.00 (4.4.			
below for the	he provisions in West Virginia Code tract of land as follows:	§ 22-6A, the Operator has provide	ed the requ	ired parties	with the Notice Forms listed
State:	West Virginia				
County:	051-Marshall			524,992.285	
District:	Union	N		1,426,774.348	
Quadrangle:	Moundsville	Public Road Access:	:	Grand View Roa	d
Watershed	Upper Ohio South	Generally used farm	name: S	Serafin Ortiz	
	epper ente coutr				
it has provide information re of giving the requirements Virginia Code of this article	West Virginia Code § 22-6A-7(b), the secretary, shall be verified and seed the owners of the surface described by subsections (b) and (c), so surface owner notice of entry to surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall the three been completed by the applicant	bed in subdivisions (1), (2) and ection sixteen of this article; (ii) the article pursuant to subsection (a), of this article were waived in write ender proof of and certify to the state.	ation: (14) (4), subsection the requirement of the requirement of the requirement of the recretary t	A certification (b), see irement was a of this article surface oval the notice	on from the operator that (i) ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice
Pursuant to V that the Oper	West Virginia Code § 22-6A, the Oprator has properly served the require	perator has attached proof to this I d parties with the following:	Notice Cert	ification	
*PLEASE CHE	CK ALL THAT APPLY				OOG OFFICE USE ONLY
	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS CO	NDUCTE	D	☐ RECEIVED/ NOT REQUIRED
	ICE OF ENTRY FOR PLAT SURV	EY or NO PLAT SURVEY V	WAS CON	DUCTED	□ RECEIVED
■ 3. NOT	ICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRED NOTICE OF ENTRY FOR PLAY WAS CONDUCTED or	BECAUSI T SURVEY	E Y	RECEIVED/ NOT REQUIRED
		☐ WRITTEN WAIVER BY S (PLEASE ATTACH)	SURFACE	OWNER	
4. NOTI	ICE OF PLANNED OPERATION				RECEIVED
5. PUBL	LIC NOTICE				RECEIVED
■ 6. NOTI	CE OF APPLICATION		TEN E	Signer	☐ RECEIVED

Required Attachments:

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

Notary Public

Certification of Notice is hereby given:

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

Address:

Well Operator: SWN Production Co., LLC By: Brittany Woody Its: Staff Regulatory Specialist Telephone:

> Notary Public, State Of West Virginia Elizabeth Blankenship 941 Simpson Run Road

Weston WV 26452 My commission expires June 23, 2024

Leveren erren erre

1300 Fort Pierpont Dr., Suite 201 Morgantown, WV 26508 Facsimile: 304-884-1690 Email: Brittany_Woody@swn.com

304-884-1610 NOTARY SMALL Seal

Subscribed and sworn before me this 22 day of June 2023

My Commission Expires

Oil and Gas Privacy Notice:

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

> RECEIVED Office of Oil and Gas

> > DEC 05 2023

WV Department of Environmental Protection WW-6A (9-13)

API NO. 47- 051 OPERATOR WELL NO. Serafin Ortiz MSH 405H
Well Pad Name: Serafin Ortiz

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice:	Notice Time Requirement: notice shall be provided no later	than the filing data of normit !
Notice of: PERMIT FOR ANY	13111	
PERMIT FOR ANY CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED	Date of Notice: Date Permit Application Filed:	//4
WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the applicant, the evosion and sediment control plan required by section seven of this article, and the well plut to each of the following persons: (1) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the events of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enligement, alteraction, repair, remain, or abundance of the placement, construction, enligement, alteraction, repair, remain, or abundance of the placement of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work activity is to take place, (CO) If more than three transats in common or other or owners or interests described in subsection (6) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in subsection (6) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in subsectio	Notice of:	
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PERSONAL REGISTERED MAIL RECEIPT OR SIGNATURE CONFIRMATION	Delivery method pursuant to West Virginia Code 8 22-64	10(6)
SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The common coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work activity is to take place. (c)(1) If more than the output of the surface over or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work a		10(0)
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sediment control plan required by section seven of this article, and the well plat to each of the follow persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leaschold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leaschold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandomment of any impoundment or pit as described in section nine of this article; (3) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the inolder is the landowner. W. Va. Code R. § 35-8.5.7.a. requires, in part, that the operator shall also provide	certificate of approval for the construction of an impoundment or	pit as required by this article shall delice.
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oil and gas leasehold being developed by the proposed well work, if the surface tract or tracts overlying the described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (3) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code, R. § 35-8-5.7. a requires, in part, that the operator shall also provide the Well Site Safety Plan (sediment control plan required by section seven of this article and	the well plat to each of the fall with the application, the erosion and
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operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule. ZINFACE OWNER(s) Address: [998 Marshall Street] Benwood, WV 26031 Name: Address: [998 Marshall Street] Address: [998 Marshall Stree	oil and gas leasehold being developed by the proposed well work.	if the surface tract is to be used for roads and the life in the surface tracts overlying the
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WW-6A (8-13) 4705102511

OPERATOR WELL A

OPERATOR WELL NO. Serafin Ortiz MSH 405H Well Pad Name: Serafin Ortiz

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

47051025 API NO. 47-051

OPERATOR WELL NO. Serafin Ortiz MSH 405H

Well Pad Name: Serafin Ortiz

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

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

M Ds. Bursh

WW-6A (8-13)

API NO. 47-051 5 1 0 2 5 1 1
OPERATOR WELL NO. Serafin Ortiz MSH 405H
Well Pad Name: Serafin Ortiz

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13)

Notary Public

OPERATOR WELL NO. Serafin Ortiz MSH 405H

Well Pad Name: Serafin Ortiz

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

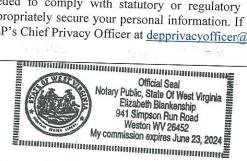
Telephone: 304-884-1610 Email: Brittany_Woody@swn.com Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 22 day of whe.

My Commission Expires

MA Debattuleur n Environmental Protection

Operator Well No. Serafin Ortiz MSH

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

entry Date of Not		. Totale shall be provid	ed at least SEVEN (7)	lays but no more th	nan FORTY-FIVE (45) days prior to
Date of 110t					
		Date of Plann	ed Entry: 6/22/2023		
Delivery me	ethod pursuant t	o West Virginia Code	e § 22-6A-10a		
☐ PERSO	ONAL	REGISTERED	☐ METHOD OF DE	I IVEDV THAT D	POLITICA A
SERVI		MAIL	METHOD OF DE	LIVERY THAT R	EQUIRES A
			RECEIPT OR SIG		
but no more beneath such owner of mir and Sedimen Secretary, when able the su	than forty-five da tract that has file nerals underlying it Control Manual hich statement sha rface owner to ob	by prior to such entry and a declaration pursual such tract in the count and the statutes and reall include contact infortain copies from the second	to: (1) The surface own ant to section thirty-six, ty tax records. The noticules related to oil and go	article. Such notice er of such tract; (2) article six, chapter ce shall include a s	or shall provide notice of planned entry shall be provided at least seven days to any owner or lessee of coal seams twenty-two of this code; and (3) any tatement that copies of the state Erosion production may be obtained from the page on the Secretary's web site, to
10000000	eby provided to	:			
	CE OWNER(s)		■ COA	L OWNER OR LE	ESSEE
Name: Frank &				rshall Land , LLC	
Address: 1696 Benwood, WV 260			Address:	PO Box 261	
			Julian, WV 2	5529	
Address:					
				ERAL OWNER(s)	
Name:				rafin T. Ortiz, Trustee of Th	ne Serafin T. Ortiz Trust
Address:				170 Celestial Way	
			Juno Beach, I		
7.449 (2.5)			prease attac	h additional forms if ne	cessary
Notice is her	reby given:				
Pursuant to W	est Virginia Code	e § 22-6A-10(a), notic	e is hereby given that the	e undersigned well	l operator is planning entry to conduct
	on the tract of lan	d as follows:	growing in	e undersigned wen	operator is planning entry to conduct
State:	WV		Approx. Latit	ude & Longitude:	39.990571° -80.707151°
County:	Marshall		Public Road A	Access:	Grand View Road
District:	Union		Watershed:		Upper Ohio South
Quadrangle:	Moundsville		Generally use	d farm name:	Serafin Ortiz MSH
Copies of the	V 25304 (304-92	26-0450). Copies of si	nual and the statutes an	d rules related to oi	il and gas exploration and production parters, located at 601 57 th Street, SE, elated to horizontal drilling may be
Charleston, W	the secretary by			10-31-10-10-10-10-10-10-10-10-10-10-10-10-10	
Charleston, Wobtained from					
Charleston, Wobtained from	eby given by:				
Charleston, Wobtained from Notice is her Well Operator	eby given by:	COMPANY, LLC	Address:	1300 Fort Pierpont Dr. S	Suite 201
Charleston, Wobtained from	eby given by:	COMPANY, LLC	Address:	1300 Fort Pierpont Dr., S Morgantown, WV 26508	

Oil and Gas Privacy Notice:

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

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Date of Notice	Requirement: Notice shall be provided at least e: 07/05/2023 Date Permit A	TEN (10) days prior to filing application Filed:	a permit application.
Delivery met	hod pursuant to West Virginia Code § 22-6A	-16(b)	
☐ HAND DELIVE	CERTIFIED MAIL RY RETURN RECEIPT REQUES	TED	
drilling a hori: of this subsect subsection ma and if availabl	Y. Va. Code § 22-6A-16(b), at least ten days pricted or hand delivery, give the surface owner not zontal well: <i>Provided</i> , That notice given pursuion as of the date the notice was provided to the y be waived in writing by the surface owner. The, facsimile number and electronic mail address	or to filing a permit application tice of its intent to enter upon that to subsection (a), section to exurface owner: <i>Provided, however, if required, shall incomplete of the operator and the o</i>	the surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this
Name: Frank and		(s): Name:	
Address: 1696	The state of the s	Address:	
Benw	ood, WV 26031		
State: County: District:	est Virginia Code § 22-6A-16(b), notice is here ner's land for the purpose of drilling a horizonta West Virginia Marshall Union	UTM NAD 83 Easting: Northing: Public Road Access:	well operator has an intent to enter upon ollows: 524,992.285 4,426.774.348
	Moundsville 7.5, WV Upper Ohio-Wheeling	Generally used farm name:	Serafin Ortiz
This Notice S Pursuant to We facsimile numb related to horiz located at 601 5	Shall Include: est Virginia Code § 22-6A-16(b), this notice per and electronic mail address of the operator contal drilling may be obtained from the Secret 67th Street, SE, Charleston, WV 25304 (304-926)	and the operator's authorize	d representative. Additional information
Notice is here			
Well Operator:	SWN Production Company, LLC	Authorized Representative:	Justin Booth
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
Tr. 1 . 1	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	304-884-1675	Telephone:	304-884-1675
Email:	Justin_Booth@swn.com	Email:	Justin_Booth@swn.com
Facsimile:		Facsimile:	

Oil and Gas Privacy Notice:

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

WW-6A5 (1/12)

Operator Well No. SERAFIN ORTIZ MSH 405H

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

Date of Not	e Requirement: notice shall be provided no lice: 07/05/2023 Date Permit App	ater than the filin lication Filed:	ag date of permi	it application.
Delivery me	ethod pursuant to West Virginia Code § 22	-6A-16(c)		
	TD) I D D COMME	IAND DELIVERY		
the planned required to be drilling of a damages to the	W. Va. Code § 22-6A-16(c), no later than the trequested or hand delivery, give the surface operation. The notice required by this subset provided by subsection (b), section ten of the horizontal well; and (3) A proposed surface the surface affected by oil and gas operations the ser required by this section shall be given to the	section shall inc his article to a sur- use and compe	lude: (1) A copy rface owner who nsation agreeme	or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the nt containing an offer of compensation for
Name: Frank ar Address: 1696) e of notice): Name Addre		,
Notice is here Pursuant to Woperation on State: County: District: Quadrangle: Watershed:	eby given: Vest Virginia Code § 22-6A-16(c), notice is he the surface owner's land for the purpose of d West Virginia Marshall Union Moundsville 7.5, WV Upper Ohio-Wheeling	UTM NAD Public Road	83 Easting: Northing:	well operator has developed a planned act of land as follows: 524,992.285 4,426.774.348 Serafin Ortiz
horizontal well surface affects information re	Vest Virginia Code § 22-6A-16(c), this notice d by W. Va. Code § 22-6A-10(b) to a surfact lit; and (3) A proposed surface use and competed by oil and gas operations to the extent the lated to horizontal drilling may be obtained located at 601 57 th Street, SE. Charlesto	ensation agreeme e damages are o	e land will be uent containing an ompensable und	used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional
Well Operator Telephone:	SWN Production Company, LLC 304-884-1675	Address:	1300 Fort Pierpont D Morgantown, WV 265	
Email:	Justin_Booth@swn.com	Facsimile:		
Oil and Gas P	Privacy Nation	1000	200 mars	

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



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION **Division of Highways**

1900 Kanawha Boulevard East • Building Five • Room 110

Gregory L. Bailey, P.E. Interim State Highway Engineer Charleston, West Virginia 25305-0430 • (304) 558-3505

Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

July 31, 2023

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

Subject: DOH Permit for the Scrafin Ortiz Pad, Marshall County Serafin Ortiz MSH 405H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0669 which has been issued to Southwestern Energy for access to the State Road for a well site located off Marshall County Route 2/4 SLS MP 2.16

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated March 6, 2023. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Operations Engineer Central Office O&G Coordinator

Cc:

Brittany Woody Southwestern Energy CH, OM, D-6

File

Attachment VI Frac Additives

HCL	Solvent	Chamical Name Hydrochloric Acid	CAS BUILDER
		Water	7647-01-0
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	7732-18-5
	0.5.0.00.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.	Ethylene glycol	111-76-2
		N,N-Dimethylformamide	107-21-1
			68-12-2
		benzyl chloridequaternized	72480-70-7
		Cinnamaldehyde	104-55-2
		Isopropyl alcohol	67-63-0
		Poly(oxy-1,2-ethanediyl), .alpha(nonylphenyl)omegahydroxy-	9016-45-9
		1-Decanol	112-30-1
		1-Octanol	111-87-5
Annual Communication of the Co		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	Sodium Erythorbate	commends for comment a primary comment of the control of the contr
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	6381-77-7
		Quaternary ammonium compounds	55566-30-8
		Ethanol	68424-85-1
		Water	64-17-5
Plexslick 930	Friction Reducer		7732-18-5
	Meddeel	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Oleic Acid Diethanolamide	93-83-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Ammonium Chloride	12125-02-9
		Sodium Chloride	7647-14-5
Plexaid 655NM	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	CONTRACTOR OF THE PARTY OF THE
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	7732-18-5
		Water	64742-47-8
		copolymer of 2-propenamide	7732-18-5
		Alcohol Ethoxylate Surfactants	69418-26-4
		Sodium Chloride	68551-12-2
Plexaid 655WG			7647-14-5
		ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
		Water	7732-18-5
		Glycerin	67-56-1
Clearal 270		Glutaraldehyde	111-30-8
		Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	
		Ethanol	68424-85-1
		Water	64-17-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	7732-18-5
		CHEMSTREAM-Polymer-10001	107-21-1
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-1000
		Water	CHEMSTREAM-Polymer-1000
timSTREAM FR 9800	The property of the property o	Chemstream-Alkane-00001	7732-18-5
			Chemstream-Alkane-00001
		Chemstream-Polymer-00001	Chemstream-Polymer-00001
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
timSTREAM FR 2800	Friction Reducer [Distillates (petroleum), hydrotreated light	64742-47-8
	,	Alcohols, C11-14-iso, C13-rich, ethoxylated	
		Water	78330-21-9
timSTREAM FR 9725		Distillates (petroleum), hydrotreated light	7732-18-5
		Ammonium Chloride	64742-47-8
		Water	12125-02-9
timSTREAM SC 398 C	Scale Inhibitor (CHEMSTREAM-Polymer-10001	7732-18-5
			CHEMSTREAM-Polymer-10001
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
	V	Vater	7732-18-5

OPERATOR: SWN Production Co., LLC	WELL NO: Serafin Ortiz MSH 405H				
PAD NAME: Serafin Ortiz					
REVIEWED BY:	SIGNATURE: BIHONY MOODY				
WELL RESTRICTIONS CHECKLIST					
HORIZONTAL 6A WELL					
Well Restrictions	* Pad BinH 12/7/1				
At Least 100 Feet from Pad and LOD (including any E&S Control Feature) to any Perennial Stream, Lake, Pond, Reservoir or Wetland; OR					
DEP Waiver and Permit Conditions					
At Least 300 Feet from Pad and LOD (including any E&S Control Feature) to any Naturally Producing Trout Stream; OR					
DEP Waiver and Permit Conditions					
At Least 1000 Feet from Pad and LOD (including any E&S Control Feature) to any Groundwater Intake or Public Water Supply; OR					
DEP Waiver and Permit Conditions					
At Least 250 Feet from an Existing Water Well or Developed Spring to Well Being Drilled; OR					
Surface Owner Waiver and Recorded with County Clerk, OR					
DEP Variance and Permit Conditions					
At Least 625 Feet from an Occupied Dwelling Structure to Center of the Pad; OR					
Surface Owner Waiver and Recorded	with County Clerk, OR				
DEP Variance and Permit Conditions					
At Least 625 Feet from Agricultural Buildings of the Pad; OR	s Larger than 2500 Square Feet to the Center				

Surface Owner Waiver and Recorded with County Clerk, OR

DEP Variance and Permit Conditions