

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, October 20, 2025 WELL WORK PERMIT Horizontal 6A / New Drill

EXPAND OPERATING LLC 6100 N WESTERN AVE.

OKLAHOMA CITY, OK 73118

Re: Permit approval for Serafin Ortiz MSH 6H 47-051-02559-00-00

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.

ason Harmon

Operator's Well Number: Serafin Ortiz MSH 6H

Frank J & Lori A Longwell Farm Name:

U.S. WELL NUMBER: Horizontal 6A New Drill

47-051-02559-00-00

Date Issued: 10/20/2025

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API	Number:	

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.

 10/24/2025

WW-6B (04/15) API NO. 47- 051 OPERATOR WELL NO. Serafin Ortiz MSH 6H
Well Pad Name: Serafin Ortiz MSH

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

1) Well Operator: Expa	and Operating LLC	494533012	051- Marsha	13-Union	486-Moundsville
		Operator ID	County	District	Quadrangle
2) Operator's Well Num	ber: Serafin Ortiz MSH 6	6H Well Pad	Name: Serafi	n Ortiz MS	SH
3) Farm Name/Surface (Owner: Frank J. & Lori A. Lor	ngwell Public Road	d Access: Gran	nd View Ro	oad
4) Elevation, current gro	ound: <u>1279'</u> Ele	evation, proposed p	ost-construction	on: 1279'	
5) Well Type (a) Gas	<u>x</u> Oil	Unde	rground Storag	e	
Other					
(b)If Ga		Deep			
	Horizontal X				
6) Existing Pad: Yes or l					
7) Proposed Target Form	nation(s), Depth(s), Antici	pated Thickness at	nd Expected Pr D- 6295', Anticipated T	ressure(s):	ssociated Pressure- 4084
-		v b v b b b b b b b b b b b b b b b b b			
8) Proposed Total Vertice					
9) Formation at Total Ve	ertical Depth: Marcellus				
10) Proposed Total Mea	sured Depth: 26,607'				
11) Proposed Horizontal	Leg Length: 19,913.57	71			
12) Approximate Fresh	Water Strata Depths:	390'			
13) Method to Determin	e Fresh Water Depths: _C	Clean sand below	deepest wate	r well.	
	ater Depths: 1242'- Salini				
15) Approximate Coal S	eam Depths: 765'				
16) Approximate Depth	to Possible Void (coal mi	ne, karst, other): _	Possible void	765'.	
	location contain coal sean acent to an active mine?	ns Yes	No	x	
(a) If Yes, provide Min	ne Info: Name:				
(a) -1 x +0, pro : 100 x	Depth:				
	Seam:				
	Owner:				
	-				

STRADER LOWER PECEIVED Gas office of oil and Gas SEP 1 6 2025

SEP 1 6 2025

WV Department 10/24/2025

WW-6B (04/15)

OPERATOR WELL NO. Serafin Ortiz MSH 6H

Well Pad Name: Serafin Ortiz MSH

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	136'	136'	CTS
Fresh Water	13 3/8"	New	J-55	54.4#	795'	795'	916 sx/CTS
Coal	See	Surface	Casing				
Intermediate	9 5/8"	New	J-55	36#	2112'	2112'	812 sx/CTS
Production	5 1/2"	New	P-110 HP	20#	26,607'	26,607'	Tail 4979sx/ 100' Inside Intermediate
Tubing							
Liners							

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

PACKERS

Kind:		
Sizes:		
Depths Set:		

STRADER GOWEN

Page 2 of 3

OPERATOR WELL NO. Serafin Ortiz MSH 6H
Well Pad Name: Serafin Ortiz MSH

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 ***

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.

Office SEP 16 2025

*Note: Attach additional sheets as needed.

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Page 3 of 3

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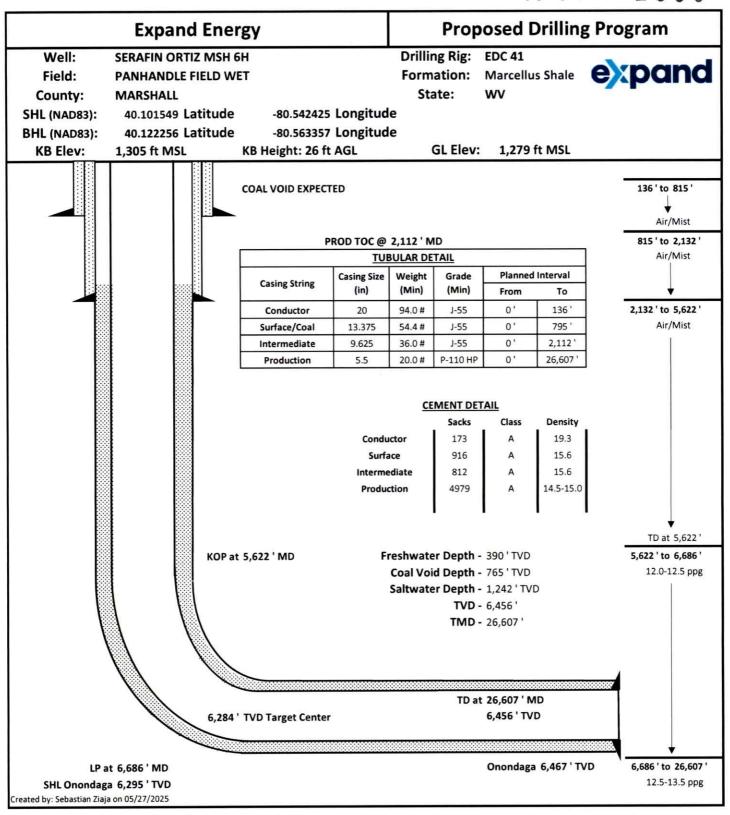
			CEMENT	ADDITIVES		
INTERVAL	SCHLUMBERGER PRODUCT NAME	BJ PRODUCT NAME	NEXTIER PRODUCT NAME	PRODUCT USE	CHEMICAL NAME	CAS-Number
SURFACE (FRESHWATER)	$>\!\!<$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
up (q.34)	S001	A-7P	0110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
COAL PROTECTION	$>\!\!<$	INTEGRA SEAL	0600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
insta Z%	S001	A-7P	CJIIO	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	D020	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	0047	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
INTERMEDIATE	$>\!\!<$	INTEGRA SEAL	CJ600	LOST CIRC MATERIAL	CELLOPHANE FLAKES	9005-81-6
INTERMEDIATE	CemNet	> <	\times	LOST CIRC MATERIAL	COATED FIBERGLASS FIBERS	PROPRIETARY
	SUGAR	SUGAR	CJ795	CMT RETARDER	SUCROSE	57-50-1
	S001	A-7P	CJ110	ACCELERATOR	CALCIUM CHLORIDE	10043-52-4
	\searrow	$>\!\!<$	CJIII	ACCELERATOR	SODIUM CHLORIDE	7440-23-5
	><	55-IIW	0880	SURFACTANT	NONIONIC SURFACTANT	6540-99-4
	DO47	FP 28L	$>\!\!<$	LIQUID ANTIFOAM AGENT	POLYPROPYLENE GLYCOL	25322-69-4
	$>\!\!<$	$>\!<$	OX157011	SOLID ANTIFOAM AGENT	FULLERS EARTH(ATTAPULGITE)	8031-18-3
	><	$>\!<$	CJ540	HP FLUID LOSS ADDITIVE	ALIPHATICAMIDE POLYMER	PROPRIETARY
	0255	><	$>\!<$	MED TEMP FLUID LOSS ADDITIVE	POLYACRILIC POLYMER	PROPRIETARY
	$>\!\!<$	\sim	CJ213	RETARDER	CHRYSTALLINE SILICA	14808-60-7
PRODUCTION	>>	FL-66	0501	LOW TEMP FLUID	POWDERED POLYSACCHARIDE	PROPRIETARY
	$>\!\!<$	BENTONITE	CJ020	EXTENDER	BENTONITE	1302-78-9
	D208	ASA-301	> <	VISCOSI FIER/ANTI- SETTLING AGENT	REFINED POLYMER/ CHRYSTALLINE SILICA	PROPRIETARY
	D198	R-3	> <	CEMENT RETARDER	LIGNIN	8068-51-6
	SUGAR	SUGAR	CJ795	CEMENT RETARDER	SUCROSE	57-50-1
	D065	\times	X	DISPERSANT	SODIUM POLYNAPHTHALENE SULFONATE	8068-51-6
	D800	\nearrow	\times	CEMENT RETARDER (Mid-Temperature)	SODIUM	8061-51-6

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Office Of Oil and Gass

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STRADER LOWER
1/17/2025



Brittany Woody Staff Regulatory Specialist

June 9, 2025

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

RE: Proposed New Well: Serafin Ortiz MSH 6H

Dear Mr. Brewer:

Expand has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Ortiz's property, in Union District, Marshall County, West Virginia.

If you have any questions or desire additional information, please me at 304-209-5688.

Thank you.

Sincerely,

Brittany Woody Staff Regulatory Specialist

Expand Energy

Brittany Woody

Office SEP 16 2025

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API Number 47 -	051	=
Operator's	Well No.	Serafin Ortiz MSH 6H

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FEOIDS/ COTTINGS DISPOSAL & RECLAMATION FEAN
Operator Name_Expand Operating LLC OP Code 494533012
Watershed (HUC 10) Upper Ohio- Wheeling Quadrangle Moundsville
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No
Will a pit be used? Yes No V
If so, please describe anticipated pit waste:
Will a synthetic liner be used in the pit? Yes No If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:
Land Application
Underground Injection (UIC Permit NumberVarious Approved Facilities)
Reuse (at API Number At the next anticpiated well Off Site Disposal (Supply form WW-9 for disposal location)
Other (Explain recovery and solidification on site
Will closed loop system be used? If so, describe: Yes- See Attachment 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 TD
-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base
Additives to be used in drilling medium? Attachment 3B Office Of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill SEP 1 6 2025
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) wy Department of
-Landfill or offsite name/permit number? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Apex Sanitary Landfill Ub-U8438, Brooke Co SVVF-1013, FMS 353100
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any
West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose
where it was properly disposed.
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature
Company Official (Typed Name) Brittany Woody
Company Official Title Staff Regulatory Specialist Staff Regulatory Specialist Staff Regulatory Specialist
Weston, WV 28452
Subscribed and sworn before me this 33 day of June 23, 2029
Subscribed and sworn before me this 33 day of June , 20 35 Notary Public
My commission expires 4/23/2029

4705102559

Operator's Well No. Serafin Ortiz MSH 6H

Expand Operating LLC		
Proposed Revegetation Treatment: Acres Disturbed 8.2	Prevegetation pH	
Lime _as determined by pH test min.2 Tons/acre or to correct to pH _3.87		
Fertilizer type _10-20-20		
Fertilizer amount_600/500lbs/acre		
Mulch_ Hay/StrawTons/acre		
Seed Mixture	<u>s</u>	
Temporary	Perman	ent
Seed Type lbs/acre Attachment 3C	Seed Type	lbs/acre
provided). If water from the pit will be land applied, include dimensions (acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet.	•	·
Plan Approved by: STRADER GOWER STELL	S	
Comments:		
		<u> </u>
		<u>-</u> -
Title: Oil & Gas Inspector	7/17/2625	
Field Reviewed? () Yes () No	.,,	

Office Of Oil and Gas

SEP 16 2025

WV Department 20724/2025
Environmental Procedure 20724/2025

Attachment 3A

CLOSED LOOP SYSTEM

The closed loop system is designed to eliminate the use of reserve pits by providing a higher level of solids control processing and using steel pits for capture of drill cuttings. The cuttings are then processed to achieve landfill requirements before hauling to approved landfills. The liquids are processed to recycle into the active mud system or to transfer to onsite temporary storage as needed.

The closed loop system consists of a Shale Gas Separator, several banks of solids shakers, high speed centrifuges (1 or 2) used to process the fluid portion of the mud system to remove low gravity solids, low speed centrifuge used for barite recovery in highly weighted liquid drilling systems, a dewatering system (for air intervals and if freshwater mud systems are in use) used to further clean liquids by flocculation and additional mechanical separation, associated open top tanks for processing liquids and capturing solids for disposal, and transfer pumps to move fluids through the processes. There is an area adjacent to the cuttings tanks (Red Zone) where a track hole is utilized to recover the processed cuttings for loading into containers for haul off to an approved landfill site. (See attached schematic of a generic closed loop system layout)

Below are discussions of the processes used when drilling the air interval or liquids interval.

AIR DRILLING INTERVALS

During air drilling operations, flow from the rig will pass down the flowline to the Shale Gas Separator where gas and liquids/solids are separated. Gas is sent to the flare scrubber tank and is flared at the flare stack. Solids and fluids pass across a shaker system to separate solids from liquids. Solids pass into the cuttings tanks where they are captured for drying and hauloff to an approved landfill site. Liquids fall into a shaker tank and are collected by a centrifugal pump to be processed by the high speed centrifuge to further separate liquids and solids. Solids are then dumped into the cuttings tank for drying and hauloff. Liquids are further processed to remove additional low gravity solids before being reused or transferred to onsite storage.

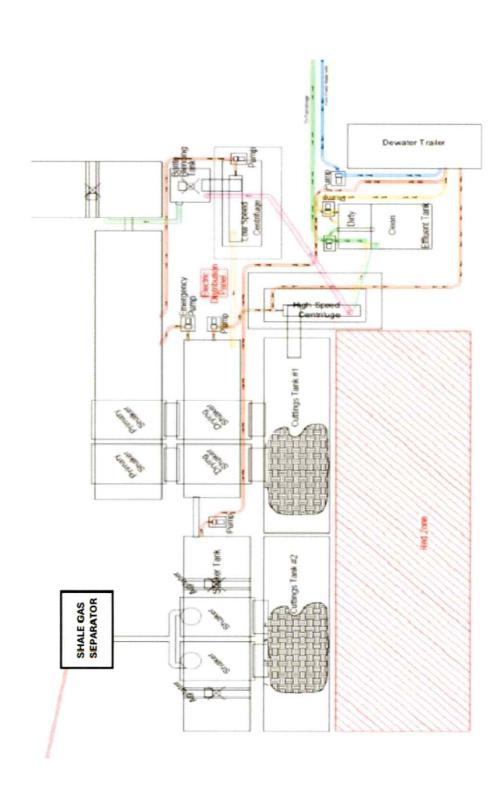
LIQUIDS DRILLING (FRESHWATER, BRINE, SOBM)

When drilling is converted to liquids drilling, the Shale Gas Separator and associated shaker tank are bypassed, and the liquids system is processed over the primary and drying shaker systems. Cuttings drop into the cuttings tank for additional processing. Any recoverable associated liquids attached to the cutting are recovered out the tank and processed through the low gravity (high speed) and barite recovery centrifuges (low speed) to further remove low gravity solids and to recover barite for reuse in the mud systems.

Office SEP 16 2025
SEP 16 2025
SEP 16 2025



expand **



Drilling Mediums

<u>Surface/Coal (if present)/Freshwater Intervals</u>

Air

Freshwater (if needed based on conditions)

Intermediate/Coal (if present)

Air

Freshwater (if needed based on conditions)

Brine (if needed, base fluid for mud systems)

Production Hole:

Air

Synthetic Oil (Base Fluid for mud system)

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsfiers

Gilsonite

Calcium Carbonate

Friction Reducers



WVD Seeding Specification

To Order Seed contact John Dubowski office 304-209-5741 cell 346-773-6078 john.dubowski@expandenergy.com (pl

Oct. 15th- April 15th PLUS

50lbs per acre of Winter Wheat

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWN	N Supplied
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	15%	
Brown Top Millet	5%	
Red Top	5%	
Medium Red Clover	5%	All legumes are
White Clover	5%	innoculated at 5x normal
Birdsfoot Trefoil	5%	rate
Rough Bluegrass	5%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre

No. of Concession, Name of Street, or other Designation, or other		11	100		A CONTRACTOR OF THE PERSON NAMED IN
COIL	ABA	A E DI	-	AFR	ITC
SOIL	AIV	II N		/IFIN	

April 16th- Oct. 14th

10-20-20 Fertilizer *Apply @ 500lbs per Acre
Pelletized Lime Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with Expand supervision at the beginning of the project to allow time for special seed delivery.

ORGANIC PROPERTIES				
Seed Mixture: Expand Production Org	anic Mix	Expand Supplied		
Organic Timothy	50%			
Organic Red or White Clover	50%			
OR				
Organic Perennial Ryegrass	50%			
Organic Red or White Clover	50%			
Apply @ 100lbs per acre		Apply @ 200lbs per acre		
April 16th- Oct. 14th	April 16th- Oct. 14th Oct. 15th- April 15th			
Organic Fertilizer @ 200lbs per Acre	Organic Fertilizer @ 200lbs per Acre Pelletized Lime @ 2 Tons p			

Seed Mixture: Wetland Mix	Expand Supplied	
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	
Cosmos 'Sensation'	10%	
Redtop	5%	
Golden Tickseed	5%	-
Maryland Senna	5%	47
Showy Tickseed	5%	
Fox Sedge	2.5%	0
Soft Rush	2.5%	S
Woolgrass	2.5%	Acres
Swamp Verbena	2.5%	0
Apply @ 25lbs per acre	Apply @ 50lbs per acre	N
April 16th- Oct. 14th	Oct. 15th- April 15th	
NO FERTUIZER OF L	IME INSIDE WETLAND LIMITS	CI
NO PERTILIZER OR L	IIVIE INSIDE WEILAND LIIVII 13	CI

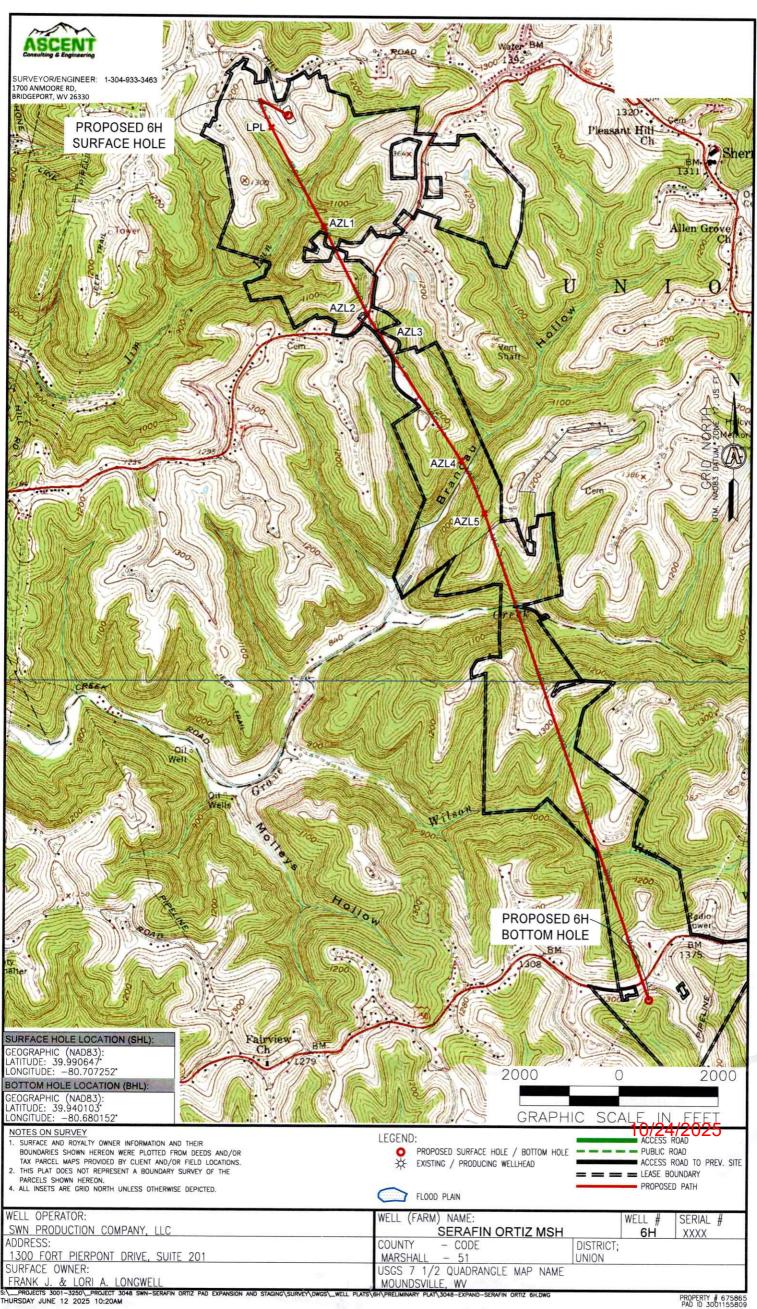
MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN 4705102559



Expand Energy 1300 Fort Pierpont Drive, Suite 201 Morgantown, West Virginia 26508

API NO. 47-XXX-XXXXX
WELL NAME: Serafin Ortiz MSH 6H
Moundsville QUAD
Union DISTRICT
MARSHALL COUNTY, WEST VIRGINIA

Submitted by:		
Name: Brittany Woody Suttany Woody	Date: <u>6/9/2025</u>	RECEIVED Office Of Oil and Gas
Title: Staff Regulatory Specialist	Expand Energy	SEP 1 6 2025
Approved by:		avironmental Protection
Name: STRADER COWER	Date: 7/17/2028	
Title: Oil & GAS Inspector		
Approved by:		
Name:	Date:	
Title:		
Expand Energy – CONFIDENTIAL		



PROPERTY # 675865 PAD ID 3001155809

LATITUDE: 39'57'30" -

6,639

HOLE

BOTTOM

ONGITUDF: 80'40'00" SURFACE HOLE 3.406'

ONGITUDE: 80'40'00"

US FT

GRID NORTH NADB3 DATUM, ZONE 17.

JTM,



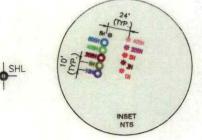
SURVEYOR/ENGINEER: 1-304-933-3463 1700 ANMOORE RD, BRIDGEPORT, WV 26330 SURFACE HOLE LOCATION (SHL):

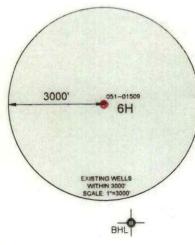
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,760.132
EASTING: 524,992.273

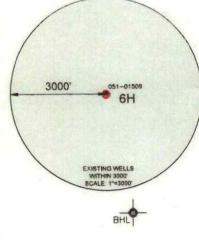
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,426,682.929
EASTING: 524,886.203

BOTTOM HOLE LOCATION (BHL):

UTM (NADB3, ZONE 17, METERS): NORTHING: 4,421,158.235 EASTING: 527,326.037







	₩ 177.26 Q 6H	
S 1528	5 25 4 45	1
	REFERENCES IRON PIN NTS	/

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 24'32'25" W	340.94	SHL TO MONUMENT	IRON ROD
L2	N 01'02'25" E	694.18'	SHL TO MONUMENT	IRON ROD
L3	S 53'57'04" W	430.42'	SHL TO LPL	SHL TO LPL

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	S 53'57'04" W	430.42'	1,309.47'	SHL TO LPL
L4	S 28'16'28" E	2,346.57	2,346.71	LPL TO AZL1
L5	S 26'55'54" E	2,015.26	2,015.26	AZL1 TO AZL2
L6	S 31'13'54" E	544.03	544.32	AZL2 TO AZL3
L7	S 33'24'47" E	3,098.62	3,098.62	AZL3 TO AZL4
L8	S 24'26'48" E	1,202.21	1,205.93'	AZL4 TO AZL5
L9	S 19'03'23" E	10,702.73	10,702.73	AZL5 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, NADB3 DATUM, ZONE
 17, US FT.
 2. WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.
 3. 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:

THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO 37 OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION ID BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE MENT OF ENVIRONMENTAL PROTECTION. 06-12-2025

(+) DENOTES LOCATION OF WELL ON MINIMUM DEGREE

WVDEP OFFICE OF OIL & GAS DEGREE OF ACCURACY:

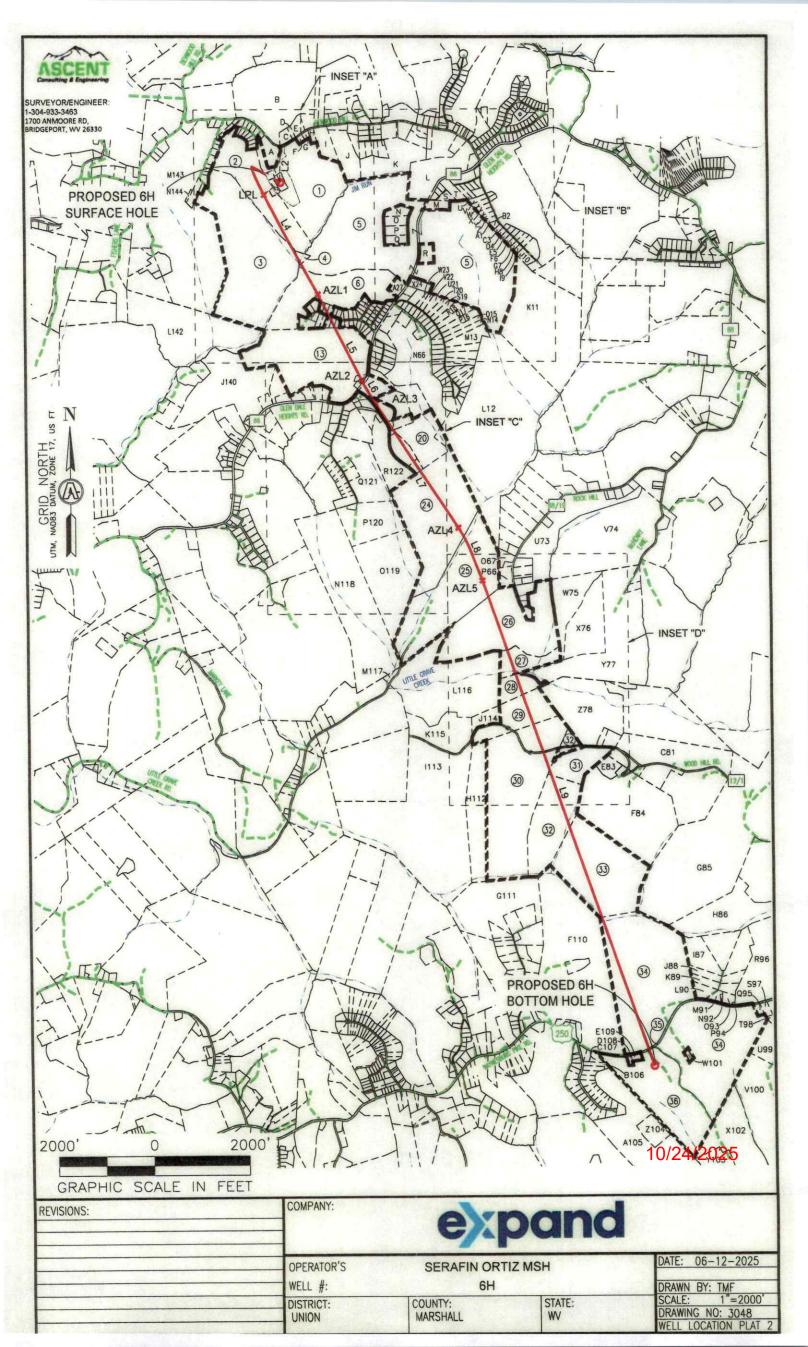
1/200 PROVEN SURVEY

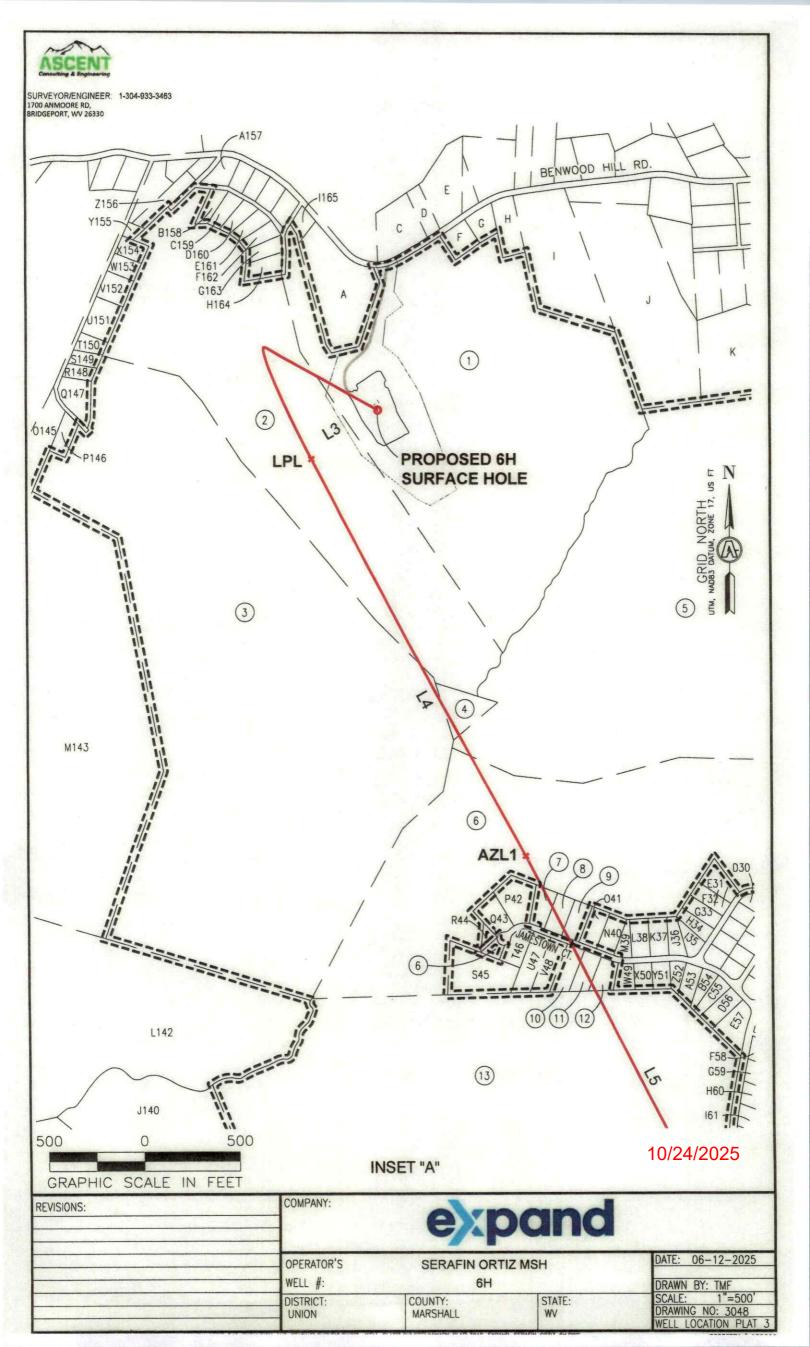
SERAFIN ORTIZ MSH 6H OPERATOR'S WELL #:

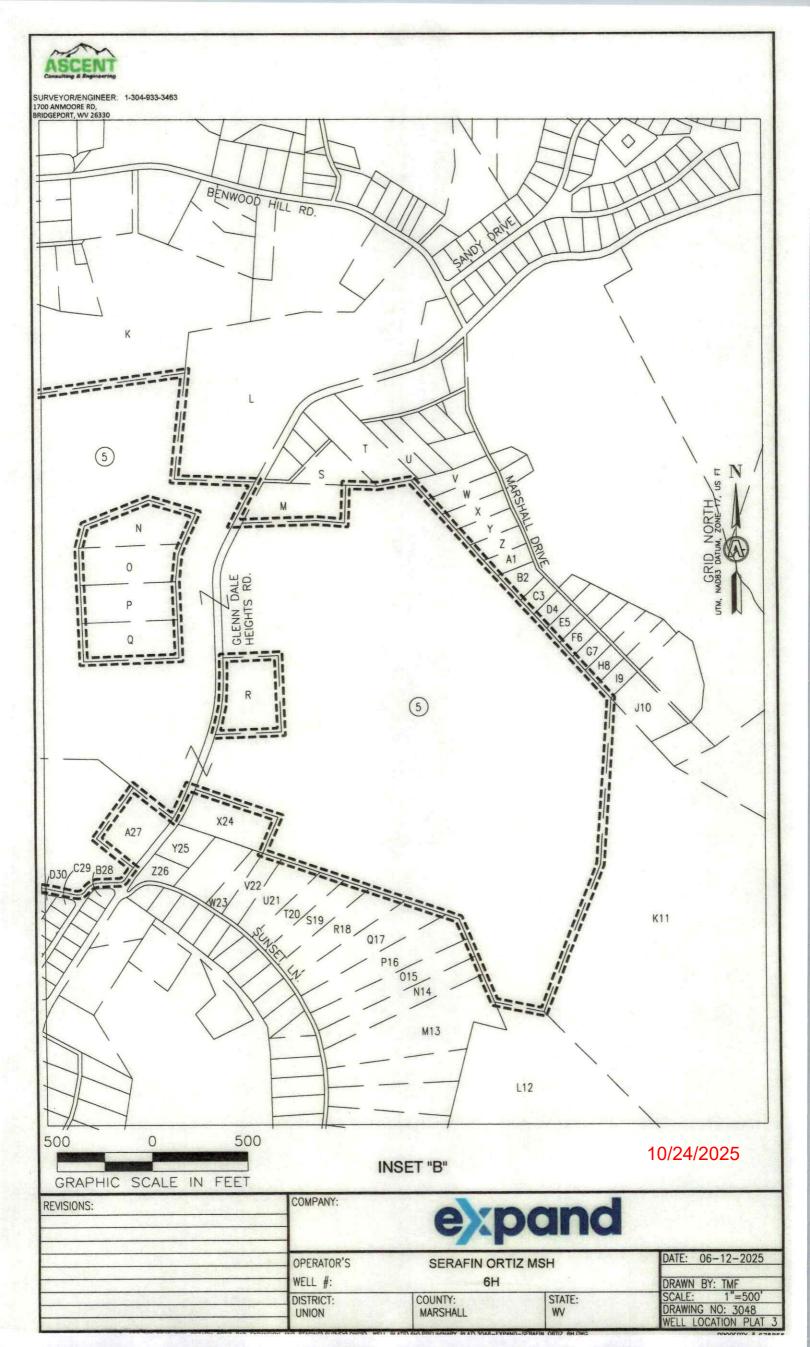
601 57TH STREET	ELEVATION: (NAVD 8)	API WE	LL #: 41	31	02557
CHARLESTON, WV 25034	ELEVATION: (NAVD 8)	a, US (1)	STATE	COUNTY	PERMIT
WELL TYPE: OIL WASTE DISPOSAL PRODU	OCTION DEEP	GAS LIQU	IID INJECTION ELEVATION:	STORAGE	SHALLOW 🔀
DISTRICT: UNION CO SURFACE OWNER: FRANK J. & LORI A. LONGWELL	UNTY: MARSHALL			E: MOUNDSVILLE	7.5', WV ±44.949
OIL & GAS ROYALTY OWNER: SERAFIN T. ORTIZ, AS TRUSTE	E OF THE SERAFIN T. ORTIZ	TRUST AGREEMENT I	DATED JULY 31, 199		
DRILL DRILL DEEPER REDRILL FRAC			FORMATION SPECIFY)	PERFORATE NEW 10/24/2	FORMATION 2025
TARGET FORMATION: MARCELLUS				DEPTH: 6,456 TV	D 26,607 TMD

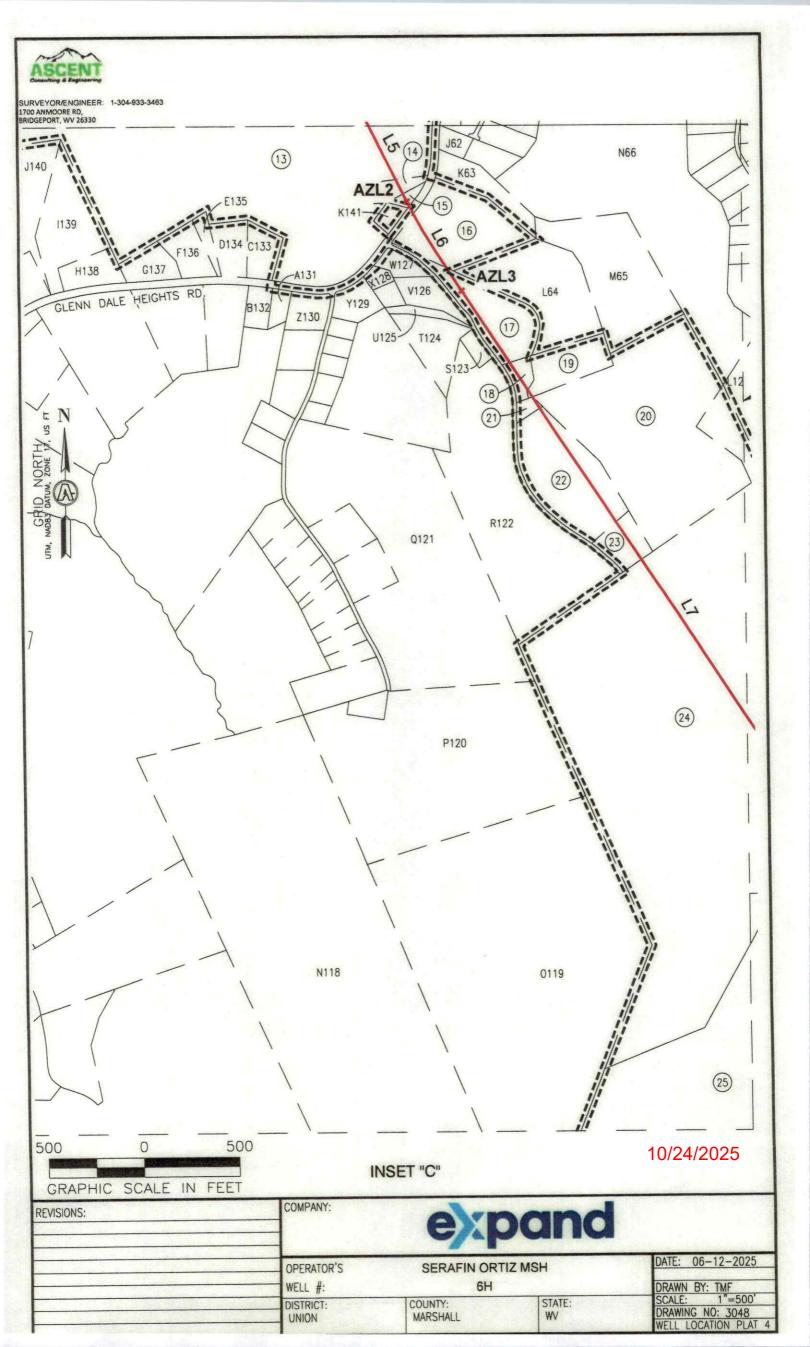
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG	OTHER CHANGE (SPECIFY)	10/24/2025
TARGET FORMATION: MARCELLUS	ESTIMATED DEPT	TH: 6,456 TVD 26,607 TM
WELL OPERATOR: _EXPAND OPERATING, LLC ADDRESS: _1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: _WV ZIP CODE: _26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUIT CITY: MORGANTOWN STATE: WV	E 201 ZIP CODE: <u>26508</u>
LEGEND: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD SURVEYED BOUNDARY DRILLING UNIT LEASE BOUNDARY PROPOSED PATH	REVISIONS:	DATE: 06-12-2025 FILE NO: DRAWN BY: TMF SCALE: 1" = 2000'
EXISTING WATER WELL EXISTING SPRING		DRAWING NO: 3048 WELL LOCATION PLAT

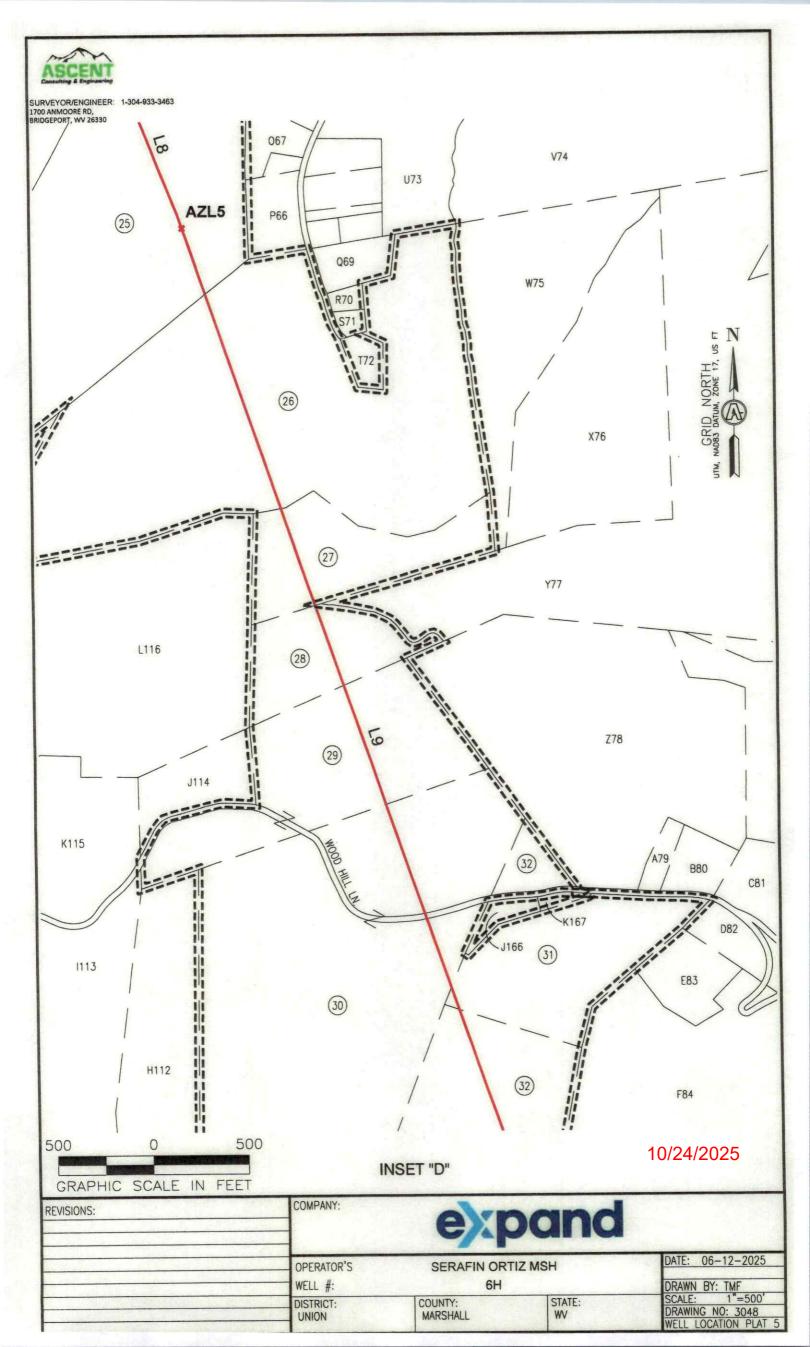
PROPERTY # 675865













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

	WELL BORE TRACTS	
RACT	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
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	HAUGHT GEORGE ET UX	13-6-51.1
3	LIPINSKI ERIC R & LORIE A	13-6-51
4	HAUGHT GEORGE ET UX	13-6-50.1
5	COOK DAVID J & ALICE M - TOD	13-6-50
6	DEFIBAUGH RONALD L & SANDRA	13-11-27.1
7	PRICE AMANDA D	13-11C-42
8	SCHMIDT ROBERT R ET UX	13-11C-43
9	BEUCKE DONALD W ET UX - TOD	13-11C-44
10	CUNNINGHAM GERALD E ET UX	13-11C-36
11	THORNTON LEE M & FAITH DUNN	13-11C-35
12	PATRICK BRENT & JENNIFER	13-11C-34
13	STEPHENS JAMES J & JAMES DANIEL	13-11-25
14	STEPHENS BEVERLY J - LIFE	13-11-25.4
15	STEPHENS BEVERLY J - LIFE	13-11-26.1
16	PRENAT DOROTHY KAY	13-11-30
17	MARKEY-TEKELY VICKIE IRREV TR & MARKEY SEAN IRREV TRUST	13-11-31
18	BAKER JOSEPH H	13-11-34.2
19	BAKER JOSEPH H	13-11-32.3
20	MILLER WILLIAM S & SANDRA M	13-11-32
21	KLAGES MARTHA M EST	13-11-34.1
22	MILLER WILLIAM S & SANDRA M	13-11-34
23	YOUNG DENNIS W JR & HOSKINS-YOUNG CHANTEL	13-11-33
24	LONGWELL FRANK & LORI	13-10-1
25	DOBBS JULIE A	13-13-1
26	MURPHY BONNIE L IRREVOCABLE TR	13-13-5
27	WEAVER GEORGE F II ET UX	13-13-25
28	DOLGOVSKIJ MICHELE	13-13-4
29	HELLER FRANKLIN C II ET AL	14-4-2
30	HELLER FRANKLIN C II ET UX	14-4-3
31	HELLER FRANKLIN C II ET UX	14-4-4.2
32	HELLER FRANKLIN C II ET UX	14-4-4
33	HELLER FRANKLIN C II ET UX	14-4-8
34	RIGGS RALPH EST	14-7-38
35	STATE OF WEST VIRGINIA, DEPARTMENT OF TRANSPORTATION	WAYNESBURG PIKE RD.
36	LAMBIE RICHARD F JR & JANE DAFOE - TOD	14-7-38.3

REVISIONS:	COMPANY:	ex	pano	DATE: 06-12-2025		
	OPERATOR'S WELL #:	SERAFIN O		DATE: 06-12-2025 DRAWN BY: TMF		
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: 3048 WELL LOCATION PLAT 7		



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

RACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL
A	SWN PRODUCTION COMPANY LLC	13-6-49.2
	VAN SCYOC PATRICK A & FAITH M	13-6-17
В		13-6-18
C	WILT VINCENT E	13-6-19
D	TOLER MARGARET - LIFE	
E	HUTCHISON JAMES A & HOLLY M	13-6-20
F	NIXON MADISON M	13-6-49.1
G	NIXON MADISON M	13-6-48
Н	VANDYNE ZACHARY D	13-6-47
1	CRALL MICHAEL D & LISA DAWN	13-6-46
J	O'NEAL CYNTHIA	13-6-45
K	HULL GAYLERD F & SHARON	13-6-23.11
L	CALDWELL CHRISTIAN A	13-7-1.1
M	KELLER BRIAN J & JANET	13-6-50.5
N	BURKE ANDREA M & JAMES D	13-6-50.6
0	COOK DAVID J & ALICE - TOD	13-6-50.8
Р	COOK STEVEN M & SHANNON R	13-6-50.3
Q	COOK SUZANNE	13-6-50.4
R	KELLER WILLIAM J - TOD	13-6-50.2
S	HECKMAN FLORA BELLE - TOD	13-7C-18
T	VANNEST ALEX M & HOWARD ALLIE R	13-7C-17
U	FINNEGAN GEORGE ROBERT	13-7C-16
V	COX MARY FRANCES EST	13-7C-10
W	HARBISON WALTER L ET UX	13-7C-9
X	HARBISON WALTER L ET UX	13-7C-8
Y	RENZELLA PATRICIA R	13-7C-7
Z	DEL RE MARVIN E ET UX	13-7C-6
A1	GUMP MARTIN L	13-7C-5
B2	PEACE NATHANIEL O & ELAINE M	13-7C-4
C3	PEACE NATHANIEL O & ELAINE M	13-7C-3
D4	NOVICK RYAN J & ALEXANDRA P	13-70-2
E5	ELSON LINDA S & SAMUEL F	13-7C-1
F6	SEACHRIST MARGARET TURNER - TOD	13-7-44
	SEACHRIST MARGARET TURNER - TOD	13-7-45
G7		13-7-51
H8	YOUNG CAROL L	
19	YOUNG CAROL L	13-7-50
J10	ALLEN RICHARD C ET UX	13-7-52
K11	VARGO CINDY L ET AL	13-10-3
L12	MARSHALL LAND LLC	13-10-2
M13	MOOSMAN MATTHEW G	13-10A-14
N14	WARD DEREK J	13-10A-13
015	HUNTER WILLIAM D & MARLENE - TOD	13-10A-12
P16	HILL PATRICIA J	13-10A-11
Q17	HILL PATRICIA J	13-10A-10
R18	HILL PATRICIA J	13-10A-9
519	HALL JUSTIN & MADELYN HOPKINS	13-10A-8
T20	HULL GAYLERD E	13-10A-7
U21	BRANNAN BRICIE GREER	13-10A-6
V22	MCCLURE DEVAN & LINDSEY CAIN	13-10A-5
W23	FECAT WALTER J JR ET UX	13-10A-4
X24	BRAUTIGAN RANDY & KAYLA	13-6-50.7
Y25	HENDRICKSON WILMA C	13-10A-2
Z26	HENDRICKSON WILMA C	13-10A-1
A27	DEFIBAUGH RONALD L	13-11-27.8
B28	SADA DAVID JUDE & MARY LYNN	13-11C-22
C29	HILT EDWARD D	13-110-21
D30	STEWART TREVOR R & GUZEK ANDREA	13-11C-11
E31	MANIAR BHARAT C ET UX - TOD	13-110-10
	BENNETT RACHEL L & JESSE R	13-11C-9

REVISIONS:	COMPANY:	ex	panc	
	OPERATOR'S WELL #:	SERAFIN C		DATE: 06-12-2025 DRAWN BY: TMF
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: 3048 WELL LOCATION PLAT 7



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

RACT	SURFACE OWNER	TAX PARCEL
G33	LEONARD SHEREE	13-11C-8
H34	NEAL KERRY R & LACEY M	13-11C-7
135	GARRETT PATRICK A ET UX	13-11C-6
J36	ROBERTS SAMUEL C	13-11C-50
K37	CONNER FRANCES A - TOD	13-11C-49
L38	HAWK ROBERT & CHARLOTTE	13-11C-48
M39	ROBBINS DAVID M & MARCIE M	13-11C-47
N40	ZORN PAMELA M	13-11C-46
041	DOUGHERTY KARA MCGILTON	13-11C-45
P42	FAULSTICK CHAD M	13-110-41
Q43	DERROW CLINT D & BRITTANY N	13-11C-40
R44	DERROW CLINT D & BRITTANY N	13-11C-51
545	MARSHALL CO SEWERAGE DIST	13-11-27.4
	ANGLEMYER STEVE & VERONICA	13-11C-39
T46	HILLBERRY JILL C	13-11C-38
U47		13-11C-37
V48	BIRCH BRITTANY JO & ROBERT M	
W49	FECAT FREDERICK R ET UX	13-11C-33
X50	DOYLE PATRICK J ET UX	13-11C-32
Y51	STORM H WILLIAM ET UX	13-11C-31
Z52	MILLER THOMAS W & MARY C	13-11C-30
A53	MILLER THOMAS W JR & MICHELLE M	13-11C-5
B54	HARDMAN PAMELA K	13-11C-4
C55	FECAT ZACHARY J	13-11C-3
D56	FECAT ZACHARY J	13-11C-2
E57	J & T ENTERPRISES	13-11C-1
F58	RICHARDSON GREIGH G & LAURA A	13-11E-1
G59	RICHARDSON GREIGH G & LAURA A	13-11E-2
H60	JURA JOHN F ET UX - TOD	13-11E-3
161	MEEKER JOANN ELLEN & JAMES R	13-11E-4
J62	MEEKER JAMES R & JOANN ELLEN	13-11E-5
K63	JOHNSON RICHARD BLAINE	13-11-29
L64	MARKEY-TEKELY VICKIE IRREV TR & MARKEY SEAN IRREV TRUST	13-11-32.1
M65	PRENAT DOROTHY KAY	13-11-28
	MULDREW PATRICIA A - TOD	13-11-27
N66	CONNER SHARON	13-10-45.5
067		13-10-45.4
P68	FLOWERS DIANA L & GARLAND W	13-13-5.1
Q69	ELLIOTT MELISSA R & CHARLES R	
R70	MURPHY BONNIE L - TOD	13-13-5.2
S71	MURPHY BONNIE L - TOD	13-13-5.3
T72	KASTEN ANITA SELLERS ET VIR	13-13-5.4
U73	ROTH JACOB S	13-10-43.8
V74	ROTH FAYE E	13-10-42
W75	ROTH FAYE E	13-13-5.5
X76	WEAVER GEORGE & SANDRA IRREVOCABLE TRUST	13-13-6
Y77	WEAVER GEORGE & SANDRA IRREVOCABLE TRUST	13-13-7
Z78	MASON MICHAEL E EST	14-4-5
A79	MASON MICHAEL E EST & TASHA L	14-4-5.3
B80	HELLER FRANKLIN C II ET UX	14-4-5.1
C81	MASON ROLAND B	14-4-6
D82	HELLER FRANKLIN C II ET UX	14-4-6.2
E83	HELLER FRANKLIN C II ET UX	14-4-7.1
	HELLER FRANKLIN C II ET UX	14-4-7
F84		14-4-9
G85	CONKLE BRENT A & AUDRA R	
H86	BURKETT NATHAN NEIL JR	14-4-10
187	DOYLE RICHARD L ET UX - VANSCYOC DOUGLAS M & KRISTEN L	14-4-40.5
J88	DOYLE RICHARD L ET UX - VANSCYOC DOUGLAS M & KRISTEN L	14-4-40.7
K89	MERCER CURTIS D - TOD	14-4-40.10
L90	PETTIT RONALD A & MARY	14-4-40
	A CONTRACTOR OF THE CONTRACTOR	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW





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

RACT	SURFACE OWNER	TAX PARCEL
N92	WENDT CHARLES W & DAISY V	14-4-40.1
093	WENDT CHARLES W & DAISY V	14-4-41
P94	MANUFACTURERS LIGHT & HEAT	14-4-41.1
Q95	PAN HANDLE FARMERS MUTUAL INS CO OF W VA	14-7-38.4
R96	GUZEK DANIEL D	14-4-38
S97	MOBLEY ROBERT B	14-5-47
T98	MOBLEY ROBERT B	14-5-46
U99	DOYEL DONNA S - TOD & DEBORAH L HUMMEL	14-5-44
V100	WRIGHT KEYSTONE TRUST	14-5-48
W101	RIGGS DONALD GREGORY	14-7-38.5
X102	SCHWING JERRY E ET UX	14-7-39
Y103	SCHWING TRAVIS W & MELISSA E	14-7-40
Z104	MILLER PHILLIP H & TRACY D	14-7-41.3
A105	TOMS RUN LLC	14-7-41
B106	SANTONAS JACOB W & JADE A	14-7A-29
C107	BLANKENSHIP EDWARD J & VALERIE L	14-7A-30
D108	HANLEY MARY L	14-7-38.2
E109	LAMBIE RICHARD F JR	14-7-38.1
F110	MASON DALE F & SANDRA L	14-4-43
G111	FRANCIS RONDA & HAROLD LEE	14-3-10
H112	HELLER FRANKLIN C II ET AL	14-3-9
1113	HELLER FRANKLIN C II & MARTHA ET AL	14-3-8
J114	HELLER FRANKLIN C II ET AL	14-4-1
K115	HELLER FRANKLIN C II ET AL	14-3-7
L116	DOLGOVSKIJ MICHELE	13-13-3
M117	SCHULTZ TIMOTHY E & CHARLA A	13-13-2
N118	CATO MICHAEL S ET UX	13-12-39
0119	BAKER ELDON	13-12-40
P120	BAKER ELDON W	13-12-40.1
Q121	RICHMOND JAMES DAVID	13-11-44
R122	STEPHENS JERALD L ET UX	13-11-44.1
5123	MARKEY-TEKELY VICKIE IRREV TR & MARKEY SEAN IRREV TRUST	13-11-35
T124	MARKEY-TEKELY VICKIE IRREV TR & MARKEY SEAN IRREV TRUST	13-11-44.2
U125	MARKEY-TEKELY VICKIE IRREV TR & MARKEY SEAN IRREV TRUST	13-11-32.2
V126	LOGSTON RICHARD S & MIMI S	13-11-36
W127	MAGERS WILLIAM L & MARY SUE	13-11-36.3
X128	LOGSTON RICHARD S & MIMI S	13-11-36.1
Y129	LEITT PAMELA J REVOCABLE LIVING TRUST	13-11-38
Z130	RICHMOND TIMOTHY A & TERESA L	13-11-39
A131	CALDWELL ALBERT L ET UX	13-11-47.2
B132	CALDWELL ALBERT L ET UX	13-11-47.1
C133	MILLER NEIL D ET UX	13-11-25.3
D134	MILLER NEIL D	13-11-25.2
E135	SCHRACK JUSTIN A & JAMES C	13-11-25.1
F136	SCHRACK JUSTIN A & JAMES C	13-11-24
G137	HICKS MICHAEL J	13-11-24.1
H138	TERRY PATRICIA EST	13-11-23
1139	TERRY PATRICIA EST	13-11-22.7
J140	OTTE MARK D ET UX	13-11-22
K141	STEPHENS BEVERLY J	13-11-26
L142	JONES MICHAEL BRENT	13-6-55
M143		13-6-53
N144		13-6-53.2
0145		13-6B-32
		13-6B-33
P146		13-6B-31
Q147		13-6B-31
R148		13-6B-29
5149		100000000000000000000000000000000000000
T150	MERINAR & KOONTZ CO	13-6B-28





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

TRACT	SURFACE OWNER	TAX PARCEL
U151	CARNEY DANIEL P ET UX	13-6B-27
V152	CARNEY DANIEL P ET UX	13-6B-26
W153	CARNEY DANIEL P ET UX	13-6B-25
X154	BAKER JAMES F	13-6B-24
Y155	BAKER JAMES F	13-68-23.1
Z156	RICH JOSEPH A ET UX ESTS	13-6B-23
A157	JONES ALEXA M	13-68-20
B158	HAUGHT GEORGE & MARY	13-6B-19
C159	JAMES ROBERT A JR & WENDY L	13-68-18
D160	JONES DAKOTA M & ELISHA GLENDENING	13-6B-15
E161	SIMMONS MICHAEL J	13-68-14
F162	MCDADE ROBERT D	13-6B-11
G163	HAUGHT GEORGE ET UX	13-68-10
H164	HAUGHT GEORGE ET UX	13-68-9
1165	HAUGHT GEORGE WILLIAM II & SHEILA A	13-6-49.3
J166	HELLER FRANKLIN C II & MARTHA J & FRANKLIN C III	14-4-4.3
K167	HELLER FRANKLIN C II & MARTHA JEAN	14-4-4.1

REVISIONS:	COMPANY:	ex	panc	
	OPERATOR'S	SERAFIN O	RTIZ MSH	DATE: 06-12-2025
	WELL #:	61	-	DRAWN BY: TMF
	DISTRICT: UNION	COUNTY: MARSHALL	STATE: WV	SCALE: N/A DRAWING NO: 3048 WELL LOCATION PLAT

WW-6A1 (5/13)

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"

*Co-tenancy utilization - At least 75% of the royalty owners have consented to the lawful use or development of the oil or natural gas mineral property on the tract. The interests of the remaining co-tenants will be secured pursuant to the Co-tenancy Modernization and Majority Protection Act.

*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:	EXPAND OPERATING, LLC
Ву:	Name Name
Its:	SR. STAFF LANDMAN

Page 1 of ____

	Seartan Cort, MSH 641 Marshall County, West Vrignia Attached to and made a part of the State of Work Virginia Od and Gua Permit Form, WW-6A1, by Expand Openring LLC, (Operator			
TMP	LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LES SWN PRODUCTION CO LLC
13-6-49	Serafin T. Ortiz and Martha G. Ortiz, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	683/84 33/110	0.00%
13-6-51.1	George Haught and Mary Haught, husband andwife	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 756/443	0.0007
12.641		SWN Production Company, LLC Expand Operating, LLC	N//	33/110 *See letter	0.00%
13-6-51	Royalty Owner (subject to unitization tiling dated 08/01/2025) Anita L. Clark, widow	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1171/446 *See letter	39.81%
	Antonia Dawn Howearth, a married woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1171/456 *See letter	_
	Christopher L. Howearth, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1174/313 *See letter	_
	Edward A. Cheslick, Jr. and Putty L. Cheslick, his wife	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1013/255 *See letter	_
	James B. Howcarth, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1171/451 *See letter	
	James H. Cunningham, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	968/167 *See letter	_
	Janine Crowley, fk/u Janine Howearth Bruce, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1209/562 *See letter	_
	John F. Cunningham, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	968/162 *See letter 968/152	_
	Judah McNabb, a married woman dealing in her sole und separate property	SWN Production Company, LLC Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter	_
	Linda Lee Dawson, widow Perry J. Polinky, a single man	SWN Production Company, LLC Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	1013/265 *See letter 1013/250	_
	Richard A. Polinsky and Barbara D. Polinsky, his wife	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/245	_
	Richard W. Cheslick, a bia Rick Cheslick	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1205/354	_
	Robert C. Polinsky, a widower	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/235	_
	Susan Ann Phillipe, a widow	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/260	_
	Tammy J. Iams, a single woman	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1207/612	_
	Thomas J. Iams, Jr., single man	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/270	_
	William Lantz and Carolvn D. Lantz. husband and wife	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 968/157	_
	William D. Polinksy, a single man	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/240	_
	Eleanor Cross, single	Expand Operating, LLC Chesangalo Annalachia L.I.C	At least 1/8th per WV Code 22-6-8	*See letter 678/66	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	Judy Penick, a married woman doing business in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	678/72 33/110	
	Alyn Robin Burkhart, a married woman doing business in her sole and separate property	Exoand Operating, LLC Chesapenke Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 678/75	_
		Expand Operating, LLC		33/110 *See letter	_
	Charles E. Borchart, a married man doing business in his sole and separate property	Chesapenke Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	678/69 33/110	
	Jeffrev A. Borchart	Expand Operating, LLC Chesaneake Annalachia. L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 678/517 33/110	_
12.6.50 1	Royalty Owner (subject to unitization filing dated 08/01/2025)	Expand Operating, LLC	N/A	*See letter	27.04%
13-0-30.1	Angela Burns, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	757/303 33/110	37,0476
	Antonia Dawn Howearth, single	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter 752/32	_
	Alliutia LAWII POWCHILI, Single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-0-8	33/110	
	Christopher Howearth, single	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 752/27 33/110	_
		Expand Operating, LLC		*See letter 724/285	_
	Geraldine Cheslick, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	33/110	
	Gilbert E. Clark, Jr. and Anita Clark, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 749/440	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	James Dake, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	757/291 33/110	
	James H. Cunningham, a married man dealing in his sole and separate property	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 722/580	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	James Howearth, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	752/22 33/110	
	Janine Howearth Bruce, a married woman dealing in her sole and separate property	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 753/490	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	John F. Cunningham, a married man dealing in his sole and separate property	Chesapenke Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	722/584 33/110	
	Judith McNabb, a married woman dealing in her sole and separate property	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 749/445	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	Linda Lee Dawson, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	760/4 33/110	
	Michael Duke, single	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 757/298	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	
	William Lantz and Carolyn D. Lantz, busband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	757/594 33/110	
	Perry J. Polinsky, a single man	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/250	_
	Richard A. Polinsky and Barbara D. Polinsky, his wife	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/245	_
	Robert C. Polinsky, a widower Robert C. Polinsky, a widower	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1013/235	_
	Susan Ann Philips, a widow	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter 1013/260	_
	Sasan Atan Primpo, a watow Tammy J. Iams, a single woman	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter 1207/612	_
		Expand Operating, LLC		*See letter 1013/270	_
	Thomas J. Iams, a kia Thomas J. Iams, Ir., single man William D. Polinsky, a single man	SWN Production Company, LLC Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter	_
13-6-50	William D. Polinsky, a single man David J. Cook, married, dealing in his sole and separate interest	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter 684/547	
13-0-00	DETECT COOK, STREET, SCHOOL, STREET, SCHOOL, SCHOOL SCHOOL STREET, SCHOOL SCHOO	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	on team to our per WV Code 22-6-8	33/110	
	Ruth Ann Keller, married, dealing in her sole and separate interest	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 683/433	0.00%
10.11.77	T A ON THE LAD BY A DATE OF THE LAD BY	SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	
13-11-27.1	Timothy O. Blaney and Elizabeth B. Blaney, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	684/341 33/110	
	Rodney D. Blaney and Wanda F. Blaney, husband and wife	Expand Operating, LLC Chesapeake Appalachia, LL.C.	At least 1/8th per WV Code 22-6-8	*See letter 684/558 33/110	0.00%
13-11C-42	William C. Beaslev and Rita G. Beaslev, husband and wife	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter	
	WHIRITH C. DODREY HIM AND G. DODREY, BUSTONDE AND WISE	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	720/361 33/110	0.00%
13-11C-42	Robert R. Schmidt und Connie Sue Schmidt, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 720/281	0.00%
13-11C-42 13-11C-43				33/110	0.00%
13-11C-43		SWN Production Company, LLC Expand Operating, LLC		*See letter	
	Donald W. Breucke and Elten K. Bencke, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	720/285 33/110	0.00%
13-11C-43	Donald W. Beucke and Elten K. Beucke, husband and wife GenM E. Cunningham and Marisa M. Cunningham, busband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235	
13-11C-43 13-11C-44 13-11C-36	GenM E. Cunningham and Marina M. Cunningham, bushnad and wife	Expand Operating, LLC Chesapeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC Chesapeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter	0.00%
13-11C-43 13-11C-44		Expand Operating, LLC Chesspeake Appalachis, LLC. SWN Production Company, LLC Expand Operating, LLC Chesspeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC Chesspeake Appalachia, LLC. SWN Production Company, LLC Chesspeake Appalachia, LLC. SWN Production Company, LLC		720/285 33/110 *Sec letter 718/235 33/110 *Sec letter 724/447 33/110	
13-11C-43 13-11C-44 13-11C-36	GenM E. Cunningham and Marina M. Cunningham, bushnad and wife	Expand Operating, LLC Chestpeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC Chestpeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC Chestpeake Appalachia, LLC. SWN Production Company, LLC Expand Operating, LLC Expand Operating, LLC Chestpeake Appalachia, LLC. Chestpeake Appalachia, LLC.	At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271	
13-11C-43 13-11C-44 13-11C-36 13-11C-35	GenM E. Cunningham and Marisa M. Cunningham, busband and wife Arlie W. Carpenter, a single man Linda Ste Miller, a married woman desling in her sole and separate property	Espand Operating, LLC Chesspeake Appalachia, LL C. SWN Production Company, LLC Chesspeake Appalachia, LL C. Espand Operating, LLC Chesspeake Appalachia, LL C. SWN Production Company, LLC Espand Operating, LLC Chesspeake Appalachia, LL C. SWN Production Company, LLC Chesspeake Appalachia, LL C. SWN Production Company, LLC Chesspeake Appalachia, LL C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271 33/110	0.00%
13-11C-43 13-11C-44 13-11C-36	Geralf E. Cunningham and Murisa M. Cunningham, bushand and wife Arise W. Caspenter, a single man	Espand Operating, LLC Cheuspeake Applashia, LLC. SWN Production Company, LLC Capand Operating, LLC Cheuspeake Applashia, LLC. Cheuspeake Applashia, LLC Cheuspeake Applashia, LLC Cheuspeake Applashia, LLC Cheuspeake Applashia, LLC Espand Operating, LLC Cheuspeake Applashia, LLC. SWN Production Company, LLC Cheuspeake Applashia, LLC. SWN Production Company, LLC Cheuspeake, Applashia, LLC. Cheuspeake,	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271	0.00%
13-11C-43 13-11C-44 13-11C-36 13-11C-35	Gendé E. Cunningham and Marina M. Cunningham, booband and wife Arlie W. Capenter, a single man Tanda Sae Miller, a married woman dealing in her sole and separate property Evelyn R. Johnson, widow	Expand Openting, LLC Chespeake Appalehin, LLC SWN Production Company, LLC Expand Openting, LLC Chespeake Appalehin, LLC Chespeake Appalehin, LLC Expand Openting, LLC Chespeake Appalehin, LLC SWN Production Company, LLC Expand Openting, LLC Chespeake Appalehin, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC SWN Production Company, LLC Expand Openting, LLC SWN Production Company, LLC Expand Openting, LLC SWN Production Company, LLC Expand Openting, LLC	At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271 33/110 *See letter 752/477 33/110 *See letter	0.00%
13-11C-43 13-11C-44 13-11C-36 13-11C-35 13-11C-34	Gerild E. Cunningham and Marisa M. Curningham, has band and wife Arfac W. Cupenter, a single man Linda Sue Miller, a married woman deading in her sole and separate property Evelyn R. Johnson, widow James D. Stophens, married, dealing in his separate property, and James J. Stephens, married, dealing in his separate property	Expand Openting, LLC Chesquela, Applachia, LLC SWN Production Company, LLC Chesquela, Applachia, LLC SWN Production Company, LLC Chesquela, Applachia, LLC SWN Production Company, LLC Chesquela, Applachia, LLC SWN Production Company, LLC Chesquela, Applachia, LLC SWN Production Company, LLC SWN Production Company, LLC Linguistic Company, LLC Linguis	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271 33/110 *See letter 752/477 33/110 *See letter	0.00%
13-11C-43 13-11C-44 13-11C-36 13-11C-35	Gendé E. Cunningham and Marina M. Cunningham, booband and wife Arlie W. Capenter, a single man Tanda Sae Miller, a married woman dealing in her sole and separate property Evelyn R. Johnson, widow	Expand Openting, LLC Chespeake, Appalebala, LLC SWN Production Company, LLC SWN Production Company, LLC Chespeake, Appalebala, LLC SWN Production Company, LLC Expand Openting, LLC Chespeake, Appalebala, LLC SWN Production Company, LLC Chespeake, Appalebala, LLC SWN Production Company, LLC Chespeake, Appalebala, LLC SWN Production Company, LLC Expand Openting, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	720/285 33/110 *See letter 718/235 33/110 *See letter 724/447 33/110 *See letter 726/271 33/110 *See letter 752/477 33/110 *See letter 1152/429 *See letter	0.00%

	Serfand Fortza MSH 641 Marshald Comay, West Virginia Attached to and made a part of the State of West Virginia Oad Gas Permit Form, WW-6A1, by E	expand Operating LLC Operator			
TMP	Anakoso to ma mare a part vi me Sade oi wear vaginad Orano van Falim Franc, w w wort, sy e LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LEA SWN PRODUCTION CO LLC
13-11-30	Royalty Owner (subject to unitization filing dated 08/01/2025) Allieta J. Rucker, a married woman dealing in her sole and separate property	N/A Chesapeake Appalachia, L.L.C.	N/A At least 1/8th per WV Code 22-6-8	N/A 779/424 33/110	26.65%
		SWN Production Company, LLC Expand Operating, LLC		*See letter	_
	Alwanda Lurin Cooley, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	777/334 33/110	
	Arthur William Oakland, Jr., widower	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 777/328 33/110	=
		Expand Operating, LLC		*See letter	_
	Benedict Clement Frohnapfel and Nila J. Frohnapfel, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	781/83 33/110	
	Bessie Gunto Clark, widow, appearing herein by and through Fred Harrison, her Agent and Attorney in Fact, by Power of Attorney unrecorded in Lake County, FL	Expand Operating, LLC Chesapeake Appalachia, LLC.	At least 1/8th per WV Code 22-6-8	*See letter 781/110 33/110	-
		SWN Production Company, LLC Expand Operating, LLC		*See letter	_
	Berty Leigh Pearce, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	781/111 33/110 *See letter	
	Bryan S. Romesburg and Johnie Lynn Romesburg, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	745/552 33/110	_
	Cathy Rae Beris ford, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 784/226	_
	Сапу кае регызии, маюч	SWN Production Company, LLC	At least 1/811 per w v Coue 22-0-8	33/110 *See letter	
	Clifford Denis and Susanna M. Denis, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	781/109 33/110	_
	Cody Dalton Hilton, single	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 740/162	=
	Cody Danion Pinton, Single	SWN Production Company, LLC Expand Operating, LLC	At least 1/811 per w v Coue 22-0-8	33/110 *See letter	
	David Eugene Clark and Nellie Joann Clark, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	781/117 33/110	_
	B 100 101 2	Expand Operating, LLC		*See letter	_
	Donald Edward Sobray, a widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	775/466 33/110	
	Dottie Hersman, single	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 781/102 33/110	_
	Douglas E. Courtwright and Jessamine Courtwright, husband and wife	Expand Operating, LLC		*See letter 779/436	_
	Douglas E. Courtwright and Jessamine Courtwright, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	33/110	
	Eksie Nuzum, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 777/316 33/110	-
	Floyd R. Clark and Edna Dianne Clark, husband and wife	Expand Operating, LLC Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter	_
	Facya K. Carri and Edna Dianne Clark, nusband and wife	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	739/84 33/110	
	Frances Courtwright, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 784/227 33/110	-
		SWN Production Company, LLC Expand Operating, LLC		*See letter	_
	Fred J. Marco, widower	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	777/322 33/110	
	Gene Ringle and Doris Ringle (f/k/a Doris Nickleson), husband and wife	Expand Operating, LLC Chesapeake Appalachia, LLC.	At least 1/8th per WV Code 22-6-8	*See letter 780/410 33/110	-
	George N. Mellvain, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 780/354	_
	Осогде м. женуап, а пиатеса пап сезанд и по мое апо мератае ргорену	SWN Production Company, LLC	At least 1/8th per w v Code 22-0-8	33/110 *See letter	
	Gregory Stausser and Margaret Stausser, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	745/6 33/110	_
	Harry Clifford Burge, Jr., single	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 780/360	-
	THE TOTAL DOUBLE AT A SAUGE	SWN Production Company, LLC Expand Operating, LLC	At this feet is a concentration	33/110 *See letter	
	Hazel S. Clark, widow	Chesapeake Appallachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	782/381 33/110	_
	James A. Swain and Mary Ann Swain, husband and wife	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter 782/384	_
		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	
	Jay Leroy Rine and Carol Jean Rine, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	784/221 33/110	_
	Jerry R. Ruthers and Jacquelynn E. Ruthers, husband and wife	Expand Operating, LLC Chesapeake Appalachia, LLC. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 780/366	-
		Expand Operating, LLC		33/110 *See letter	_
	Joseph B. Dodd and Sherry Lee Dodd, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	782/382 33/110	
	Joseph L. Chambers and Anna M. Chambers, husband and wife	Expand Operating, LLC Chesapeake Appalachia, LLC. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 782/378 33/110	=
	Joseph W. Allen, widower	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 782/377	_
	ловри т. ливи, такоты	SWN Production Company, LLC Expand Operating, LLC	At this year per wir conc 22-0-0	33/110 *See letter	
	Judy Carol Nienatko, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	780/409 33/110	_
	Karen Courtwright, single	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter 782/383	-
		Chesapeake Appalachia, L.L.C. SWN Production Company, LLC Expand Operating, LLC Chesapeake Appalachia, L.L.C.	·	33/110 *See letter 780/353	_
	Karen Jean Chambers, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	780/353 33/110	
	Leona Mellvain, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 745/542	-
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	Linda M. Ross, widow	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	760/9 33/110	
	Mary Lou Clark, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 784/224	_
		SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	Mary Lou Sheldon, filela Mary Lou Dyer, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	782/380 33/110	
	Mary P. Davis, widow	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 775/472	_
	NIO 2 11	SWN Production Company, LLC Expand Operating, LLC		33/110 *See letter	_
	Nick G. Zervos, single	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	748/15 33/110	
	Norma Jean Rogers, a married woman dealing in her sole and separate property	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 780/408 33/110	-
	Brill Warnes Dina and Joseph I. Dina burband and wife	SWN Production Company, LLC Expand Operating, LLC Charangeles Appelockie, LLC	At least 1/9th W/U C 1 At 1	*See letter	-
	Paul Wayne Rine and Joyce L. Rine, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	781/96 33/110	
	Robert W. Berisford, single	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 782/379 33/110	_
	Roger Clark, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 779/430	_
	The second and the second and the second sec	SWN Production Company, LLC Expand Operating, LLC	man compat we count 22-0-8	33/110 *See letter	
	Ruth Ann Hall, divorced	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	777/346 33/110	-
	Violet P. Standiford, widow	Expand Operating, LLC Chesapenke Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 784/220	-
		SWN Production Company, LLC		33/110 *See letter	
	Deborah Louis Lugo, a married woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1205/589 *See letter	_
	Pamela S. Burge	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/588 *See letter	_
	Monica A. Mellvain	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/641 *See letter	_
	Kathiya L. Atwell	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/597 *See letter	_
	Phyllis Ruth Clark, a widow	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/120 *See letter	_
	Robert N. McIlvain, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/650 *See letter	_
	Timothy L. Hewirt, a married man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1203/177 *See letter	_
	Bonnie Maxine Kidd, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1202/426 *See letter	_
12.11.21	Wanda Lee Hill, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1231/417 *See letter	
13-11-31	Lawrence E. Markey and Nila J. Markey, and Vickie Lynn Markey-Tekely, Trustee of the Vickie Markey-Tekely 07-02-2004 Irrevocable Trust, and Sean Vincent Markey, Trustee of the Sean Markey 07-02-20	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	705/163 33/110	0.00%
	Joseph H. Baker, a single man	Expand Operating, LLC Chesapeake Appalachia, L.L.C. (WA) Parterior Common LLC	At least 1/8th per WV Code 22-6-8	*See letter 722/308	0.00%
13-11-34.2		SWN Production Company, LLC		33/110	0.00%
	Look II Deby spiral and	Expand Operating, LLC	Andrews 1800 mm	*See letter	
13-11-34.2 13-11-32.3	Joseph H. Baker, a single man	Expand Operating, LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	722/308 33/110	0.00%
	Joseph H. Baker, a single man William S. Miller and Sandra M. Miller, husband and wife	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	722/308	0.00%

Mode of Management of		Serafu (Ora MSH 641 Marshall County, Wort Viginia Antacled to and made a part of the State of Wort Viginia Od and Gas Permi Form, Wi-6A1, b	ry Expand Operating LLC, Operator			% INTEREST NOT LEASEI
Property					BK/PG	SWN PRODUCTION COMP.
Property	13-11-34.1	Sandra M. Miller, Ülz'a Sandra Marie Klages Miller, a married woman dealing in her sole and separate property	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	33/110	0.00%
Marie Mari	13-11-34	William S. Miller and Sandra M. Miller, husband and wife	Expand Operating, LLC Chesaneake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	688/566	0.000/
Part	12.11.22	Lance & Charges and Date & Charges bearing and selection	Expand Operating, LLC		*See letter	0.00%
Martin M	13-11-33	лашез д. ганадан ши жену з. ганадан, пимони авы мие	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	33/110	0.00%
Marie Part	13-10-1	Frank Longwel and Lori Longwell, husband and wife	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1152/358	0.00%
Part	13-13-1	Royalty Owner (subject to unitization filing dated 08/01/2025) Agosta Ann Lange dissured	N/A	N/A At least 1/8th ner WV Code 22-6-8	N/A	48.06%
Back shows in indicate which we should be shown to show the should be shown to show the sho			Chevron U.S.A. Inc. EOT Aurora LLC		40/152	
Part		Daniel L. Dobbs, alk'a Daniel Lee Dobbs and Julie A. Dobbs, husband and wife	TH Exploration LLC	At least 1/8th per WV Code 22-6-8	53/349 913/44	_
Part			Chevron U.S.A. Inc.			
Part			SWN Production Company, LLC			_
Part		Thomas B. Jefferson and Amy Jefferson, hulusband and wife	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	40/152	
Part			SWN Production Company, LLC		53/349	
Manual Property of the Control of		George Phillip Woodruff, a married man dealing in his sole and separate property	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1233/437	_
Control Cont	13-13-5	Royalty Owner (subject to unitization filing dated 08/01/2025)	N/A	N/A	N/A	15.00%
Property of the property of		лине маву не лимподлек, ини допина ж. ламогостак, wire шин шимпина	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	42/329	
March Marc			SWN Production Company, LLC		53/349	
Part		Julia Ann Stern, a widow	TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	925/174	_
Part			FOT Aurora LLC		47/1 53/349	
Control Cont		Karyn Randee Sellers, AKA Randee Sellers, divorced and unremarried	Expand Operating, LLC TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	*See letter 907/183	_
Part			Chevron U.S.A. Inc. EQT Aurora LLC		40/152	
Part			SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
Part		Kelly Lee Brown, divorced and unremarried	TH Exploration, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	924/598 42/329	
Part Committed Committed			SWN Production Company, LLC			
Part		Larry W. Cumberledge, a widower	Expand Operating, LLC TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	949/375	_
Part			EQT Aurora LLC		47/1	
Property			Expand Operating, LLC		*See letter	_
Property Property American secure should plan for when dequest property Property		Neil Wayne Durfee, a single man	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	47/1	
Count Coun			SWN Production Company, LLC Expand Operating, LLC		*See letter	_
March Marc		Sandra Pytes Snyder, a married woman dealing in ner sole and separate property	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	40/152	
Care			SWN Production Company, LLC		53/349	
Property of the property of		Sharon Pyles Cole	TH Expland Operating, LLC TH Expland Tip. Change U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	925/176	_
Part			EQT Aurora LLC		47/1	
Part		Stone Hill Minerals Holdrings 11 C	Expand Operating, LLC	At least 1/8th nor WV Code 22.6.8	*See letter	_
Part			EQT Aurora LLC	ALCON FOR DEL WY CORE 22-01	47/1	
Chemit Lik A. in Chemit Lik		Suetta Cumberledge Canterbury, a married woman dealing in her sole and separate property	Expand Operating, LLC TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	*See letter 907/159	_
Part			Chevron U.S.A. Inc. EOT Aurora LLC		47/1	
Table Date In the function set of the property of the proper			SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
Part		Terri R. Durfee Langdon, a widow	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	42/329	
Control LSA, Inc. Cont			SWN Production Company, LLC		53/349	
Part		Timothy Boyd Durfee and Rebecca A. Durfee, husband and wife	Expand Operating, LLC TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	924/595	_
Part			EQT Aurora LLC		47/1	
Carron U.S.A. Ric Carr		Brodley E. Salley, a married man dashina in his colo and constant property.	Expand Operating, LLC	Ashara 18th are WALCOL AS CO.	*See letter	_
Part		олима у 11. олова, в ништом наши оснищу ві но моге шим мершане рторету	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	40/152	
Dury 1 Policy is married name dealing in his sole and separate property Cheven U.S.A. Chevan U.S.A.			SWN Production Company, LLC		53/349	
Part		Darryl Pyles, a married man dealing in his sole and separate property	TH Exploration, LLC Chewron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	913/504	_
			EQT Aurora LLC		47/1	
Fire Packer, single		Dennis Mikhael Pyles, a single man	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter	_
SWP Podering Company, LLC Syles			FOT Aurora LLC		40/152	
Exist Exis			SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
SWP Production Company, LLC S1-36 Section Sectio		Eric P. Sellers, single	TH Exploration, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	907/181 40/152	
Page of Questing LD Septem of Questing			SWN Production Company, LLC		53/349	
Cleared U.S.A. Lec. 40152 1015		Gary Pyles and Dawn Ann Pyles, husband and wife	Expand Operating, LLC TH Exploration, LLC	At least 1/8th per WV Code 22-6-8	913/518	_
Page			Chevron U.S.A. Inc. EOT Aurora LLC		40/152 47/1	
EQF Production Company, Life Cap Cap Amora LLC, EQF Call Lapplement LLC SUP Code 2.0		DOT Be desire Company DOT Char LLC DOT Assess LLC & DOT TOTAL Conference LLC	Expand Operating LLC		*See letter	_
			SWN Production Company, LLC Expand Operating, LLC		*See letter	_
Face of Departing LLC			Expand Operating, LLC		*See letter	_
Figure Operating LLC			Expand Operating, LLC		*See letter	_
Equal Operating LLC			Expand Operating, LLC		*See letter	_
Page of Congress Page of Con			Expand Operating, LLC		*See letter	_
13-13-25 George F. Werser, Il and Shelly L. Werser, hashand and write EQT Production Company At least 18th per WV Code 22-68 1185/42 55W Production Company LLC 55W Production Company			Expand Operating, LLC		*See letter	_
SWN Production Company, LLC 53/349 0.00%	 12.12.25		SWN Production Company, LLC Expand Operating, LLC EXPRODUCTOR COMPANY		*See letter	
	13-13-23	Seenge 1 - 11 serve, is more orienty to WCEPC, HISOSHIQ BIRLWHIC	SWN Production Company, LLC	ACTEDIA I OIL PET WV CODE 22-6-8	53/349	0.00%

	ENHINT A* Serida Oriv ENIGH Marshall Comp, West Virginia	III O			
	Attached to and made a part of the State of West Varginia Oil and Gas Permit Form, WW-6A1, by Expand Operating	LLC, Operator			% INTEREST NOT LEA SWN PRODUCTION COS
TMP Royalty Owner (sub	LESSOR LESSOR	LESSEE	ROYALTY	BK/PG	28 15%
Barbara A. Ender, a	single woman	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1223/328 *See letter	
Becky Sue Mason, a	a widow	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/443 *See letter	-
Bradley Mason, a m	narried man dealing in his sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/657 *See letter	-
Bridget K. Rine, a w	ridow	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1223/367	-
Christina L. Burch,	as Attorney-in-Fact for Wanda F. Mason, a widow	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1233/251	-
Danny W. Cochran,	, a single man	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/650	-
Diane McCorkle, a/l	k'a Diane Mason-McCorkle	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/630	-
Doris Lovering, a/k/	a Doris Mason-Lovering	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1223/507	-
	zold, a married man dealing in his sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/671	_
Heather DeSha Hon		Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/431	_
	alk/a Cody Skriich, a single man	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/490	-
Jonathan R. Mason		Expand Operating, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter	_
Joseph Thomas Mill		SWN Production Company, LLC Expand Operating, LLC		1229/389 *See letter	_
		SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1183/667 *See letter	_
Kathy L. Mason, a v		SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/483 *See letter	_
Kay J. Himmel, a m	arried woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1223/407 *See letter	
Leonard Z. Mason,	a single man	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1233/233 *See letter	_
Lisa Ann Miller, a si	ingle woman	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1187/79 *See letter	-
Lois J. Nibert, a wid	low	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1223/321	-
Lorna C. Mason, a s	single woman	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1233/191	-
Lorna Louise Berna		Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1223/353	-
	narried woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1179/667	=
Marcia Chamberlin.		Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/664	_
		Expand Operating, LLC		*See letter	_
	dli, a married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1223/360 *See letter	_
Martha James, a wid		SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1233/242 *See letter	_
	mbs, Uc'a Natalie Michelle Miller, a married woman dealing in her sole and separate property	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1184/496 *See letter	_
Patricia Ann Paetzol	kl, a widow	Expand Operating, LLC SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/396 *See letter	_
Paula Bell, a/k/a Pau	ıla Paetzold Bell, a single woan	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1229/637	_
Philip W. Reilly, a m	narried man dealing in his sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1225/629	-
Ralph Marvin Bonar	r, by Richard L. Bonar, Attorney-In-Fact	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1229/364	-
Rodney Mason, a m	narried man dealing in his sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1233/200	-
	, a married woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1233/368	_
		Expand Operating, LLC		*See letter 1223/374	-
	married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter	_
	married woman dealing in her sole and separate property	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/476 *See letter	_
Thomas Joseph Mill		SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1181/736 *See letter	
Todd Thomas Mage	ee, a/k/a Todd Magee	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	1030/491 47/1	_
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
Todd Mason, a singl	de man	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	1059/293	-
		EQT Aurora LLC SWN Production Company, LLC Expand Operating, LLC		47/1 53/349	
Claudia Lee Mabie,	a married woman dealing in her sole and separate property	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	*See letter 1030/491	-
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
Karen Mason Fitzge	erald, a married man dealing in his sole and separate property	Expand Operating, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	*See letter 1040/292	-
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
Terry Jay Peters, a s	inals man	Expand Operating, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	*See letter 1062/427	_
icity say i cicis, a s	HILDS. HIMILE	EQT Aurora LLC SWN Production Company, LLC	At least 1/8th per w v Code 22-0-8	47/1	
		Expand Operating, LLC		53/349 *See letter	_
Vanessa Mason, a si	ingle woman	Chevron U.S.A. Inc. EQT Aurom LLC	At least 1/8th per WV Code 22-6-8	1036/496 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
Krystal Federici, flk	/a Krystal Mason, a married woman dealing in her sole and separate property	Chevron U.S.A. Inc. EQT Aurorn LLC	At least 1/8th per WV Code 22-6-8	1059/299 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
Valerie Paetzold No	sel, a/k/a Valerie Paetzold	Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	1033/496	-
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
David Alan Mason,	a single man	Expand Operating, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	*See letter 1030/494	_
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
14.4-3 Royalty Owner (each	oject to unitization filing dated 08/01/2025)	Expand Operating, LLC N/A	N/A	*See letter N/A	22.50%
Alice Marlene Persir	nger, a widow	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1150/208 *See letter	
Barbara J. Tomaszso	cyk, a widow	SWN Production Company. LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1127/697 *See letter	_
Brenda K. Coffield	and William E. Coffield, wife and husband	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1171/209	-
Resource Minerals I	Headwater I, LP	Expand Operating, LLC SWN Production Company. LLC	At least 1/8th per WV Code 22-6-8	*See letter 1190/312	=
Marilyn Dent, a mar	rried woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Communy, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/467	-
	James B. Wolfe, wife and husband	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/215	=
	rd man dealing in his sole and scounts property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/490	_
Terry L. Pettit, single		Expand Operating, LLC		*See letter 1150/229	=
Woodhill Minerals,		Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter	_
		SWN Production Communy. LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1167/467 *See letter	_
	d Karen Sue Conner, busband and wife	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1155/43 *See letter	_
Deborah A. Cordery	y, married, dealing in her separate property	SWN Production Commany. LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1150/222 *See letter	
Deborah J. Lancaste	er, married, dealing in her separate property	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1150/201 *See letter	-
Denise L. Schollcro	ss, single	Expand Operating, LLC SWN Production Communy, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/236 *See letter	-
EQT Production Co	empany, EQT Chap LLC, EQT Aurora LLC, & EQT TGHL Exploration LLC	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1223/639	_
Ezra Howard Cochr		Expand Operating, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	*See letter 950/202	_
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
Inne O 1	narried man dealing in his sole and separate property	Expand Operating, LLC	At least 1/9th and M/U Co. 1 At 1	*See letter 920/625	-
James Cochran, a m	ниться пана меннад и на мож шва зермане ргорену	Chevron U.S.A. Inc. EOT Aurora LLC	At least 1/8th per WV Code 22-6-8	47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
Lloyd E. Yoho, a wi	dower	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	920/589 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
Melba Eileen Huddi	lestun, a widow	TH Exploration, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	943/520 40/152	_
		EOT Aurora LLC		47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
Stone Hill Minerals	Holdings, LLC	EOT Production Company SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1192/430 53/349	
Susan N. Goodrich,	widow	Expand Operating, LLC EQT Production Company	At least 1/8th per WV Code 22-6-8	*See letter 1186/63	_
		SWN Production Company, LLC Expand Operating, LLC		53/349	
				*See letter	

	EXUMIP" ^* Serafia Ortiz MSH GH Marshall Cenaty, West Virginia				
TMP	Attached to and made a part of the State of West Virginia Old and Gas Permit Form, WW-6A1, by Expand Operating LLC, Op LESSOR	LESSEE	ROYALTY	BK/PG	% INTEREST NOT LE SWN PRODUCTION CO LLC
14-4-4.2	Royalty Owner (subject to unitization filing dated 08/01/2025) Alice Markene Persinner: a widow	N/A SWN Production Company. LLC	N/A At least 1/8th per WV Code 22-6-8	N/A 1150/208	22.50%
	Barbara J. Tomaszscyk, a widow	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1127/697	-
		Expand Operating, LLC		*See letter	
	Brenda K. Coffield and William E. Coffield, wife and husband	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1171/209	-
	Resource Minerals Headwater I, LP	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1190/312	-
	Marilyn Dest, a married woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/467	-
	Kiren E. Wolfe and Junes B. Wolfe, wife and busband	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/215	-
	Terry Dest, a married man dealing in his sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/490	-
	Terry L. Petiti, single	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/229	-
	Woodhil Minerals, LLC	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1167/467	-
	Chyde F. Conner and Karen Sue Conner, husband and wife	SWN Production Communv. LLC Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1155/43	-
	Deborah A. Cordery, married, dealing in her separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/222	-
	Deborah J. Lancaster, married, dealing in her separate property	Expand Operating, LLC SWN Production Company. LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/201	
	Draise L. Scholltrose, single	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/236	-
	EQT Production Company, EQT Chap LLC, EQT Aurora LLC, & EQT TGHL Exploration LLC	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter	
		Expand Operating, LLC		1223/639 *See letter	-
	Ezza Howard Cochran, a single man	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	950/202 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
	James Cochran, a married man dealing in his sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	920/625 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
	Lloyd E. Yoho, a widower	Chevron U.S.A. Inc. EOT Aurora LLC	At least 1/8th per WV Code 22-6-8	920/589 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
	Melha Eileen Huddlestun, a widow	Expand Operating, LLC TH Exploration, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	943/520 40/152	-
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
	Stone Hill Minerals Holdings, LLC	Expand Operating, LLC EOT Production Company	At least 1/8th per WV Code 22-6-8	*See letter 1192/430	-
	Source fun outeran from 195, LLA.	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	53/349	
	Sesan N. Goodrich, widow	Expand Operating, LLC EQT Production Company SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1186/63 53/349	-
	A VOLUME OF CHARACTER	Expand Operating, LLC		*See letter	22 5007
14-4-4	KOJAY UMnef (subject to ultitization Tung anaca (MULLICE) Alice Marken Peringer, a wide and anaca (MULLICE)	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	N/A 1150/208	22.30%
	Burbara J. Tomasziesyk, a widow	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1127/697	-
		Expand Operating, LLC		*See letter	
	Brendu K. Coffield and William E. Coffield, wife and husband	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1171/209	
	Resource Minerals Headwater I, LP	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1190/312	-
	Marilyn Dest, a married woman dealing in her sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/467	-
	Karen E. Wolfe and James B. Wolfe, wife and husband	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/215	-
	Terry Dent, a married man dealing in his sole and separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1197/490	-
	Terry L. Petiti, single	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/229	-
	Woodhill Minerals LLC	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1167/467	-
	Clyde F. Conner and Karen Sue Conner, husband and wife	SWN Production Communv. LLC Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1155/43	-
	Deborah A. Cordery, married, dealing in her separate property	Expand Operating, LLC SWN Production Company. LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/222	-
	Debornh J. Lancaster, married, dealing in her separate property	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 1150/201	-
	Denise L. Schollerose, single	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8 At least 1/8th per WV Code 22-6-8	*See letter	-
		SWN Production Company. LLC Expand Operating, LLC		1150/236 *See letter	_
	EQT Production Company, EQT Chap LLC, EQT Aurora LLC, & EQT TGHL Exploration LLC	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1223/639 *See letter	-
	Ezza Howard Cochran, a single man	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	950/202 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
	James Cochran, a married man dealing in his sole and separate property	Chevron U.S.A. Inc. EQT Aurora LLC	At least 1/8th per WV Code 22-6-8	920/625 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	_
	Lloyd E. Yoho, a widower	Chevron U.S.A. Inc. EOT Aurora LLC	At least 1/8th per WV Code 22-6-8	920/589 47/1	
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
	Melba Eileen Huddlestun, a widow	TH Exploration, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	943/520 40/152	-
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	
	Stone Hill Minerals Holdings, LLC	Expand Operating, LLC EOT Production Company		*See letter	-
	Stone HIII MINIFERS HOOTINGS, LLC	SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	1192/430 53/349	
	Sissan N. Goodrich, widow	Expand Operating, LLC EOT Production Company	At least 1/8th per WV Code 22-6-8	*See letter 1186/63	-
		SWN Production Company, LLC Expand Operating, LLC		53/349 *See letter	
14-4-8	Woodhill Minerals, LLC	SWN Production Company, LLC Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1167/467 *See letter	0.00%
14-7-38	Richard F. Lambie, Jr., Exeutor of the Estate of Ralph E. Riggs, deceased	TriEnergy Holdings, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	670/181 28/356	
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	0.00%
DLIDG MINT	PD. Wart Virginia Department of Transportation. Phoision of Hollways	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th nor WW Code 30 CO	*See letter	
	th. West Virginia Department of Transportation, Division of Highways	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	1229/247 *See letter	0.00%
14-7-38.3	Richard F. Lambie, Jr., Excutor of the Estate of Ralph E. Riggs, deceased	TriEnergy Holdings, LLC Chevron U.S.A. Inc.	At least 1/8th per WV Code 22-6-8	670/181 28/356	
		EQT Aurora LLC SWN Production Company, LLC		47/1 53/349	0.00%
3-11C-41	Chad M. Faulstick and Shellie K. Faulstick, #lv/a Shellie K. Oser, busband and wife	Expand Operating, LLC	At least 1/8th per WV Code 22-6-8	*See letter 721/9	
-nc4i	CHARLE OF FRANCISCO CONTROL OF FREEDRIS, F. F. & SHESSE N. CHECK, HOUSENS HIM WHE	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	As Reast 1 out per WV Code 22-6-8	33/110	0.00%
3-11C-37	Robert M. Birch and Brittany Jo Birch, husband and wife	Expand Operating, LLC SWN Production Company, LLC	At least 1/8th per WV Code 22-6-8	*See letter 957/490	0.00%
3-11-32.1	Lawrence E. Markey and Nila J. Markey, and Vickie Lynn Markey-Tekely, Trustee of the Vickie Markey-Tekely 07-02-2004 Irrevocable Trust, and Sean Vincent Markey, Trustee of the Sean Markey 07-02-2004 Irrevocable Trust	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	*See letter 705/163	
		SWN Production Company LLC		33/110 *See letter	0.00%
	Lawrence E. Markey and Nila J. Markey, and Vickie Lynn Markey-Tekely, Trustee of the Vickie Markey-Tekely 07-02-2004 Irrevocable Trust, and Sean Vincent Markey, Trustee of the Sean Markey 07-02-2004 Irrevocable Trust	Expand Operating, LLC Chesapeake Appalachia, L.L.C.	At least 1/8th per WV Code 22-6-8	725/576 33/110	0.00%
13-11-26		SWN Production Company, LLC			

END OF EXHIBIT "A"



June 9, 2025

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 6H in Marshall County, West Virginia, Drilling under Jamestown Court Road, Grandview Road, Wood Hill Road, and Waynesburg Pike Road.

Dear Mr. Brewer:

Expand Operating LLC (Expand Energy) is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to Expand's right to drill under Jamestown Court Road, Grandview Road, Wood Hill Road, and Waynesburg Pike Road. Please be advised that Expand has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Respectfully,

Expand Operating LLC

Gavin Nadeau, RPL Staff Landman

RECEIVED
Office Of Oil and Gas

SEP 16 2025

WV Department of Environmental Protection



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

June 13, 2025

Mr. Charles Brewer Assistant Chief Office of Oil and Gas WVDEP 601 57th St SE, Charleston, WV 25304

Dear Mr. Brewer:

Effective as of October 1, 2024, Expand Operating LLC ("EXEO") and SWN Production Company, LLC ("SWNPC"), both being subsidiaries of Expand Energy Corporation, entered into a Management Services Agreement whereby SWNPC authorized EXEO to perform and act as its agent for the purpose of performing certain management services (the "Agreement"). Such Agreement was provided to your office prior to this letter. By entering into the Agreement, it was the intent of SWNPC (i) to grant EXEO the right to extract, produce and market SWNPC's oil and gas, among other rights, and (ii) that the Agreement satisfy the requirements of West Virginia Code §22-6-8(c).

Best regards,

David Wildes

Managing Counsel - Southwest Appalachia

SWN Production Company, LLC

Office Of Oil and Gas

SEP 16 2025

WV Department of Environmental Protection

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

Date of Notice Certification:			API No. 47- 051 - Operator's Well No. Serafin Ortiz MSH 6H Well Pad Name: Serafin Ortiz MSH										
							Notice has b		1 000 (4 1	0			
								e provisions in West Virginia Co- tract of land as follows:	de § 22-6A, the	e Operator has pro	vided the req	juired parties v	with the Notice Forms listed
State:	West Virginia			Easting.	524992.273								
County:	051- Marshall Union		UTM NAD 83 Public Road Acc	Easting: Northing:	4426760.132								
District:					Grand View Road	1							
	Moundsville												
Quadrangle: Watershed:	Upper Ohio- Wheeling	Generally used farm name: Serafin Ortiz MS		1									
prescribed by	West Virginia Code § 22-6A-7() the secretary, shall be verified and the owners of the surface des	nd shall contair	the following infe	ormation: (14	4) A certification	on from the operator that (i)							
of giving the requirements Virginia Code	equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant sha have been completed by the appli	o survey pursuen of this article all tender proof	ant to subsection le were waived in	(a), section to writing by	ten of this arti the surface ov	cle six-a; or (iii) the notice vner; and Pursuant to West							
Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:													
*PLEASE CHE	ECK ALL THAT APPLY					OOG OFFICE USE ONLY							
☐ 1. NOT	TICE OF SEISMIC ACTIVITY		ICE NOT REQUI			RECEIVED/ NOT REQUIRED							
$lacktriangledown$ 2. NOTICE OF ENTRY FOR PLAT SURVEY or \Box NO PLAT SURVEY WAS CONDUCTED					RECEIVED								
■ 3. NO	ΓΙCE OF INTENT TO DRILL	NOTICE	ICE NOT REQUI OF ENTRY FOR NDUCTED or			RECEIVED/ NOT REQUIRED							
		☐ wri	TTEN WAIVER	BY SURFA	CE OWNER								

Required Attachments:

■ 5. PUBLIC NOTICE

■ 6. NOTICE OF APPLICATION

■ 4. NOTICE OF PLANNED OPERATION

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.

(PLEASE ATTACH)

Office Of Oil and Gas

SEP 16 2025

WV Department of

RECEIVED

RECEIVED

RECEIVED

By:

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.

Well Operator: Expand Operating LLC

Brittany Woody

Its: Staff Regulatory Specialist

Telephone: 304-884-1610

Address: 1300 Fort Pierpont Dr., Suite 201

Morgantown, WV 26508

Facsimile: 304-884-1690

Email: Brittany.Woody@expandenergy.com

NOT AFF SAL SEAL NOTARY PUBLIC STATE OF WEST VIRGINIA Elizabeth Blankenship 60 Simpson Run Road Weston, WV 26452 My Commission Expires June 23, 2029

Subscribed and sworn before me this

day of Color (

Notary Public

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 deprivacyofficer@wv.gov.

Office Of Oil and Gas

SEP 1 6 2025

WV Department of Environmental Protection WW-6A (9-13) API NO. 47- 051 OPERATOR WELL NO. Serafin Ortiz MSH 6H
Well Pad Name: Serafin Ortiz MSH

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 t	han the filing date of permit application.	
Date of Notice: Date Permit Application Filed: Notice of:	1/15	
PERMIT FOR ANY WELL WORK CONSTRUCTION OF	PPROVAL FOR THE F AN IMPOUNDMENT OR PIT	
Delivery method pursuant to West Virginia Code § 22-6A-	10(b)	
	THOD OF DELIVERY THAT REQUIRES A EIPT OR SIGNATURE CONFIRMATION	
certificate of approval for the construction of an impoundment or registered mail or by any method of delivery that requires a receip sediment control plan required by section seven of this article, and the surface of the tract on which the well is or is proposed to be led oil and gas leasehold being developed by the proposed well work, described in the erosion and sediment control plan submitted purs operator or lessee, in the event the tract of land on which the well more coal seams; (4) The owners of record of the surface tract or well work, if the surface tract is to be used for the placement, contimpoundment or pit as described in section nine of this article; (5) have a water well, spring or water supply source located within or provide water for consumption by humans or domestic animals; a proposed well work activity is to take place. (c)(1) If more than the subsection (b) of this section hold interests in the lands, the application of the sheriff required to be maintained pursuant to section provision of this article to the contrary, notice to a lien holder is notice R. § 35-8-5.7.a requires, in part, that the operator shall also water purveyor or surface owner subject to notice and water testing	of the vell plat to each of the following persons: (1) The ocated; (2) The owners of record of the surface tract or if the surface tract is to be used for roads or other land suant to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be u tracts overlying the oil and gas leasehold being develor struction, enlargement, alteration, repair, removal or ab Any surface owner or water purveyor who is known to be thousand five hundred feet of the center of the well provided in the common or other co-owners of interests cant may serve the documents required upon the person in eight, article one, chapter eleven-a of this code. (2) Not notice to a landowner, unless the lien holder is the last provide the Well Site Safety Plan ("WSSP") to the sur	the erosion and a cowners of record of tracts overlying the disturbance as The coal owner, anderlain by one or seed by the proposed andonment of any of the applicant to seed which is used to min which the described in described in the otwithstanding any andowner. W. Va.
☐ Application Notice ☐ WSSP Notice ☐ E&S Plan Notice	ce Well Plat Notice is hereby provided to:	
SURFACE OWNER(s)	☑ COAL OWNER OR LESSEE	
Name: Frank & Lori Longwell	Name: Marshall Land, LLC	_
Address: 1696 Marshall Street Benwood, WV 26031	Address: PO Box 261 Julian WV 25529	-
Name:	COAL OPERATOR	- Office Of Oil and Ga.
Address:	Name:	Of Oll and Ga
Address	Address:	SEP 1 6 2025
SURFACE OWNER(s) (Road and/or Other Disturbance)	ridicos.	_ 2025
Name:	SURFACE OWNER OF WATER WELL	Environmental Protection
Address:	AND/OR WATER PURVEYOR(s)	Environmental Protection
	Name: See Attachment 13A	
Name:	Address:	
Address:		_
	☐ OPERATOR OF ANY NATURAL GAS STO	
☐ SURFACE OWNER(s) (Impoundments or Pits)	Name:	_
Name:	Address:	
Address:		
	*Please attach additional forms if necessary	



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) APHNO. 49-05 1 0 2 5 5 9
OPERATOR WELL NO. Serafin Orliz MSH 6H
Well Pad Name: Serafin Orliz MSH

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.

WW-6A (8-13) API 40.4 0.55 1 0 2 5 5 9
OPERATOR WELL NO. Serafin Ortiz MSH 6H
Well Pad Name: Serafin Ortiz MSH

Time Limits and Methods for Filing Comments.

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

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

WW-6A (8-13) 47,051,02559

OPERATOR WELL NO. Serafin Ortiz MSH 6H
Well Pad Name: Serafin Ortiz MSH

Notice is hereby given by:

Well Operator: Expand Operating LLC

Telephone: 304-884-1610

Email: Brittany.Woody@expandenergy.com

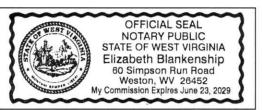
Address: 1300 Fort Pierpont Dr., Suite 201

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 33 day of JML 2025

Notary Public

My Commission Expires_

Office Of Oil and Gas

SEP 16 2025

WV Department of Environmental Protection

Serafin Ortiz MSH Pad - Water Purveyors w/in 1500'

Sources

Landowner

Address

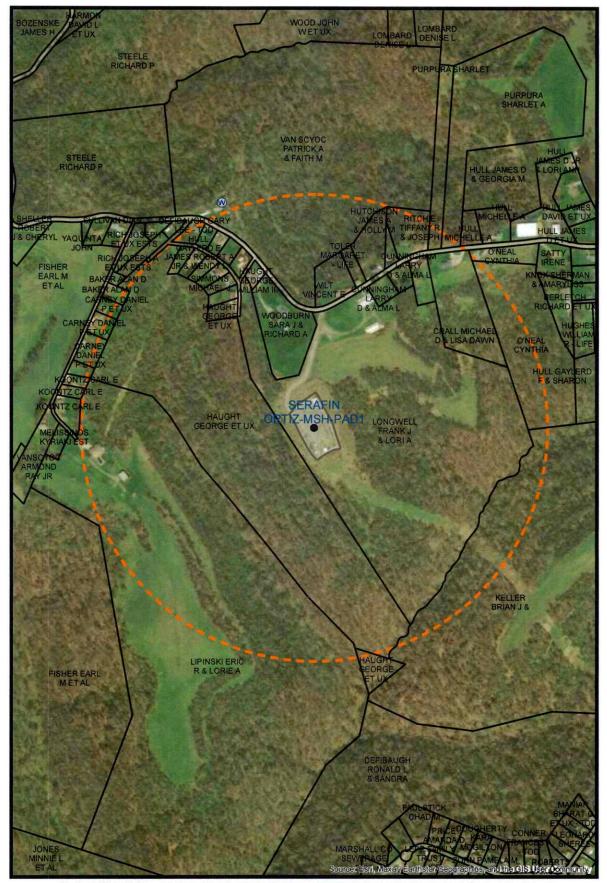
Faith M & Patrick A Van Scyoc

1952 Benwood Hill Road, Benwood WV 26031 1 well

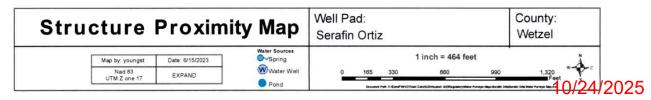
RECEIVED
Office Of Oil and Gas

SEP 16 2025

WV Department of Environmental Profession



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.



WW-6A3 (1/12)

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

		equirement:	Notice shall be pro-	vided at least	SEVEN (7) day	ys but no more than	n FORTY-FIVE (4:	5) days prior to
Date Date	of Notice	: 5/23/25	Date of Pla	nned Entry	5/29/25			
Deliv	very meth	od pursuant	to West Virginia C	Code § 22-6A	-10a			
	PERSON	AL 🔳	REGISTERED	□ ме	THOD OF DEL	IVERY THAT RE	EOUIRES A	
	SERVICE		MAIL			ATURE CONFIR		
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		oy provided to E OWNER(s)			■ COAL	L OWNER OR LE	SSFE	
	e: Frank & Lo	2.5				shall Land , LLC	JOSEE	Office Of Oil and Gas
	ress: 1696 N			_	Address:			Of Oil and
	ood, WV 26031			_	Julian, WV 25	27.34		SED - and Gas
Nam								16 2025
Addı	ress:					ERAL OWNER(s)		Environmental Protest
> T	Name of the last o			_		nk J. & Lori A. Longwell		Environmental Protection
Nam	e:			-	Address:	1696 Marshall Street		- rotection
Address:			h additional forms if ne		-			
Pursi	uant to We t survey or : nty:		ode § 22-6A-10(a), and as follows:	notice is here	No. 1000	ude & Longitude:	39.990571° -80.707151° Grand View Road Upper Ohio South	g entry to conduct
		Moundsville			Generally use	d farm name:	Serafin Ortiz MSH	
Copi may Char	es of the st be obtaine leston, WV	tate Erosion and from the Set V 25304 (304	ecretary, at the WV	Department of soft such doc	d the statutes and of Environmenta numents or additi	d rules related to o l Protection headq ional information r	il and gas exploration uarters, located at 60 elated to horizontal of	1 57 th Street, SE,
		eby given by	y:					
	Operator:	Expand Operati	ng LLC		Address:	1300 Fort Pierpont Dr.,	Suite 201	
	phone:	304-884-1610				Morgantown, WV 26508	3	
Ema	il:	brittany.woody@	expandenergy.com		Facsimile:	304-209-5688		

Oil and Gas Privacy Notice:

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

Notice Time R entry	equirement:	Notice shall be prov	ided at leas	t SEVEN (7) da	ys but no more than	n FORTY-FIVE (45) days prior to
Date of Notice	5/23/25	Date of Plan	ned Entry	5/29/25			
Delivery metho	od pursuant	to West Virginia Co	ode § 22-6 <i>l</i>	A-10a			
☐ PERSONA	AL 🔳	REGISTERED	□ мі	ETHOD OF DEI	LIVERY THAT RE	EQUIRES A	
SERVICE		MAIL	RE	CEIPT OR SIG	NATURE CONFIR	MATION	
on to the surface but no more that beneath such the owner of miner and Sediment C Secretary, whice enable the surface	te tract to contain forty-five of act that has fi als underlying Control Manuals tatement sace owner to o	duct any plat surveys days prior to such ent led a declaration pur- g such tract in the co al and the statutes an shall include contact in obtain copies from the	s required p ry to: (1) T suant to sec unty tax red d rules rela information	ursuant to this a he surface owne tion thirty-six, a cords. The notic ted to oil and ga a, including the a	rticle. Such notice s or of such tract; (2) that tricle six, chapter to the shall include a state s exploration and p	shall provide notice shall be provided at le to any owner or lesse wenty-two of this con atement that copies o roduction may be ob- age on the Secretary's	east seven days e of coal seams de; and (3) any f the state Erosion tained from the
Notice is hereb	y provided t	to:		_			
☐ SURFACE	3.7			☐ COA	L OWNER OR LE	SSEE	
Name:			-	Name:	· · · - · · · · · · · · · · · · · · · ·		
Address:			-	Address:			Office OF STREET
Name:			-				Office Of Oil and Gas
Address:			-	■ MIN	ERAL OWNER(s)		
-			_		orge & Mary Haught		SEP 1 6 2025
Name:		Address:	11 Rothmore Dr		WV Department of		
Address:		Benwood WV			Environmental Protection		
			_	*please attac	ch additional forms if ne	cessary	
a plat survey or State:	st Virginia Co		otice is her	Approx. Latin	tude & Longitude:	l operator is planning 39.990571° -80.707151° Grand View Road	entry to conduct
	Union			Watershed:		Upper Ohio South	
Quadrangle: _!	Vloundsville			Generally use	ed farm name:	Serafin Ortiz MSH	
may be obtaine Charleston, WV	d from the Se 7 25304 (304 he Secretary	ecretary, at the WV I 4-926-0450). Copies by visiting <u>www.dep</u> y:	Department of such do	of Environments cuments or addit	al Protection headquional information r		1 57 th Street, SE,
Email:		≬expandenergy.com		Facsimile:	304-209-5688	-	
	Distally.woody(g	yexperioriery.com		-			

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4705102559

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 Notic	Requirement: Notice shall be provided at ce: 07/02/2025 Date Peru	least TEN (10) days prior to filing a mit Application Filed:	permit application.
Delivery met	thod pursuant to West Virginia Code § 2	2-6A-16(b)	
☐ HAND	■ CERTIFIED MAIL		
DELIVE		UESTED	
receipt reques drilling a hori of this subsec subsection ma	V. Va. Code § 22-6A-16(b), at least ten day sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided ay be waived in writing by the surface own le, facsimile number and electronic mail ac	er notice of its intent to enter upon to pursuant to subsection (a), section to to the surface owner: <i>Provided</i> , hower. The notice, if required, shall income	he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number,
	reby provided to the SURFACE OW	NER(s):	Draw
Name: Frank Address: 1696	& Lori Longwell	Name:	Office Of Oil and Gas
	pod, WV 26031	Address:	- On and Gas
Donwe	350, *** 25001		SEP 1 6 2025
Pursuant to W the surface ov State: County: District: Quadrangle:	Vest Virginia Code § 22-6A-16(b), notice is vner's land for the purpose of drilling a hor West Virginia Marshall Union Moundsville, WV	s hereby given that the undersigned izontal well on the tract of land as for the tract of land a	well operator has an interir coreater upon ection of llows: 524,992.273 4,426, 760.132 Benwood Hill Road SERAFIN ORTIZ MSH
Watershed:	Upper Ohio-Wheeling	_	
Pursuant to V facsimile numelated to hor	Shall Include: West Virginia Code § 22-6A-16(b), this in the and electronic mail address of the orizontal drilling may be obtained from the 57th Street, SE, Charleston, WV 25304 (3)	perator and the operator's authorized Secretary, at the WV Department of	ed representative. Additional information of Environmental Protection headquarters.
	reby given by:		
	r: Expand Energy Company, LLC	Authorized Representative:	Steven Pauley
Address:	1300 Fort Pierpont Dr., Suite 201	Address:	1300 Fort Pierpont Dr., Suite 201
	Morgantown, WV 26508		Morgantown, WV 26508
Telephone:	(304) 209-5685	Telephone:	(304) 209-5685
Email: Facsimile:	steve.pauley@expandenergy.com	Email: Facsimile:	steve.pauley@expandenergy.com

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Operator Well No. SERAFIN ORTIZ MSH 6H

4705102559

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

Notice Time Date of Noti	ce: 07/02/2025 Date Permit App	ater than the filing lication Filed:	date of permit	application.	
		-			
Delivery me	thod pursuant to West Virginia Code § 22	-6A-16(c)			
CERTI	IFIED MAIL	HAND			
RETU	RN RECEIPT REQUESTED	DELIVERY			
return receipthe planned required to be drilling of a damages to the damages to the damages to the details of notice.	W. Va. Code § 22-6A-16(c), no later than to the requested or hand delivery, give the surface operation. The notice required by this subserved by subsection (b), section ten of the horizontal well; and (3) A proposed surface he surface affected by oil and gas operations have required by this section shall be given to	e owner whose lan section shall inclu his article to a surf e use and compen to the extent the d the surface owner	d will be used for de: (1) A copy face owner whose sation agreement amages are com	or the drilling of a hori of this code section; se land will be used in nt containing an offer apensable under article	zontal well notice of (2) The information conjunction with the of compensation for six-b of this chapter.
	reby provided to the SURFACE OWNER(ss listed in the records of the sheriff at the tin				2 600
	ss fisted in the records of the sheriff at the tin				Office RECEIVED Off Oil and Ga
Address: 1696		Addres	s:		— Gil and G
	ood, WV 26031	Addies	5		SEP 16 2025
Notice is her Pursuant to V operation on State: County: District: Quadrangle: Watershed:	reby given: Vest Virginia Code § 22-6A-16(c), notice is the surface owner's land for the purpose of West Virginia Marshall Union Moundsville, WV Upper Ohio-Wheeling	UTM NAD 8 - Public Road	Easting: Northing:	well operator has deve act of land as follows: 524,992.273 4,426, 760.132 Benwood Hill Road SERAFIN ORTIZ MSH	Environmental of loped a planned rotection
Pursuant to V to be provide horizontal we surface affect information 1	Shall Include: Vest Virginia Code § 22-6A-16(c), this notice the desired by W. Va. Code § 22-6A-10(b) to a surface use and completed by oil and gas operations to the extent of the related to horizontal drilling may be obtained, located at 601 57th Street, SE, Charles fault.aspx.	rface owner whose pensation agreeme the damages are co ed from the Secre	e land will be on the containing are compensable und tary, at the WV	used in conjunction we n offer of compensation der article six-b of this Department of Envir	ith the drilling of a n for damages to the chapter. Additional onmental Protection
Well Operato	Expand Energy Company, LLC	Address:	1300 Fort Pierpont I	Dr., Suite 201	
Telephone:	(304) 209-5685		Morgantown, WV 26	6508	
Email:	steve.pauley@expandenergy.com	Facsimile:			

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Michael J. DeMers

Charleston, West Virginia 25305-0440 • (304) 558-0444

Deputy Secretary of Transportation

Stephen T. Rumbaugh, P.E. Secretary of Transportation Commissioner of Highways

May 20, 2025

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 Sarafin Ortiz Well Pad, Marshall County

Serafin Ortiz MSH 6H Well Site Serafin Ortiz MSH 10H Well Site Serafin Ortiz MSH 206H Well Site Serafin Ortiz MSH 406H Well Site

Serafin Ortiz MSH 606H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2011-0669 which has been transferred to Expand Operating, LLC 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,

Office Of Oil and Gas

SEP 16 2025

WV Department of Environmental Protection Central Office O&G Coordinator

Ce: Brittany Woody

Expand Operating, LLC

OM, D-6 File

Attachment VI Frac Additives

HCI	Product Use	Chemical Name	CAS Number
HCL	Solvent	Hydrochloric Acid	7647-01-0
		Water	7732-18-5
FSTI-CI-02	Corrosion Inhibitor	2-Butoxyethanol	111-76-2
		Ethylene glycol	107-21-1
		N,N-Dimethylformamide	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
		Triethyl phosphate	78-40-0
Ferriplex 80	Iron Control	Sodium Erythorbate	6381-77-7
Tolicide 4Frac	Biocide	Tetrakis(Hydroxymethyl) Phosphonium Sulfate	55566-30-8
Tollelac 41 Tac	Diociae	Quaternary ammonium compounds	68424-85-1
		Ethanol	64-17-5
01 1.1 000		Water	7732-18-5
Plexslick 930	Friction Reducer	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	7732-18-5
Plexslick V996	Friction Reducer	Hydrotreated Petroleum Distillate	64742-47-8
		Water	7732-18-5
		copolymer of 2-propenamide	69418-26-4
		Alcohol Ethoxylate Surfactants	68551-12-2
		Sodium Chloride	7647-14-5
Plexaid 655WG	Scale Inhibitor	ORGANIC PHOSPHONIC ACIDS SALTS	15827-60-8
Plexald 655WG	Scale inhibitor		
		Water	7732-18-5
Salt - Boston		Glycerin	67-56-1
Clearal 270	Biocide	Glutaraldehyde	111-30-8
		Didecyldimethylammonium Chloride	7173-51-5
		Quaternary Ammonium compounds, Benzyl-C12-C16-alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
		Water	7732-18-5
StimSTREAM SC 398 CW	Scale Inhibitor	Ethylene glycol	107-21-1
		CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-1000
		CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-1000
		Water	7732-18-5
StimSTREAM FR 9800	Friction Reducer	Chemstream-Alkane-00001	Chemstream-Alkane-00001
JUIND I NEAIVI FR 3000	Triction Reducer	Chemstream-Polymer-00001	Chemstream-Polymer-00001
		market market for the 100 to the contract of t	card restrict in restrict to
		Ethoxylated alcohols (C12-16)	68551-12-2
		Water	7732-18-5
StimSTREAM FR 2800	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9
		Water	7732-18-5
StimSTREAM FR 9725	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8
		Ammonium Chloride	12125-02-9
		Water	7732-18-5
StimSTREAM SC 398 C	Scale Inhibitor	CHEMSTREAM-Polymer-10001	CHEMSTREAM-Polymer-1000
	AND THE PROPERTY OF THE PROPER	CHEMSTREAM-Polymer-10002	CHEMSTREAM-Polymer-10002
		Water	7732-18-5
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OPERATOR:_	Expand Operating LLC	WELL NO: Serafin Ortiz MSH 6H
PAD NAME:_	Serafin Ortiz MSH	
REVIEWED B	SY:	signature: Buttlanly Woodly

WELL RESTRICTIONS CHECKLIST

HORIZONTAL 6A WELL

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 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	
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	
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	
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	
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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 an Occupied Dwelling Structure to Center of the Pad; OR Surface Owner Waiver and Recorded with County Clerk, OR	
Surface Owner Waiver and Recorded with County Clerk, OR	2
Surface Owner Waiver and Recorded with County Clerk, OR	NE NE
Surface Owner Waiver and Recorded with County Clerk, OR	Go.
DEP Variance and Permit Conditions	
DEI Variance and Ferrite Conditions	
At Least 625 Feet from Agricultural Buildings Larger than 2500 Square Feet to the Center of the Pad; OR	
Surface Owner Waiver and Recorded with County Clerk, OR	
DEP Variance and Permit Conditions	