

west virginia department of environmental protection

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

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

Wednesday, April 9, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

ARSENAL RESOURCES LLC 6031 WALLACE RD EXT., SUITE 101

WEXFORD, PA 15090

Re:

Permit Modification Approval for J Osborn 213

47-033-06086-00-00

Extending to Lateral Landing Point

ARSENAL RESOURCES LLC

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

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

James A. Martin

Chief

Operator's Well Number: J Osborn 213

Farm Name: Judy M Osborn (LE) (Judy M Osborn Irrevocable Tru

U.S. WELL NUMBER: 47-033-06086-00-00

Horizontal 6A New Drill

Date Modification Issued: 4/9/2025

Promoting a healthy environment.

WW-6B (04/15)

#203824 3/26/25 \$7,500

4703306086

OPERATOR WELL NO. 213 Well Pad Name: J Osborn

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

1) Well Operator: Arse	nal Resources	494519412	Harrison	Simpson	Rosemont
		Operator ID	County	District	Quadrangle
2) Operator's Well Num	ber:213	Well Pad	Name: J Osb	orn	
3) Farm Name/Surface C	Owner: Judy M Osborn ((LE) Public Road	d Access: 77/4	Moss Rur	n (Coplin Run)
4) Elevation, current grow	und: 1164 Ele	evation, proposed p	oost-construction	on: 1164	
5) Well Type (a) Gas	X Oil	Unde	rground Storag	е	
Other					
(b)If Gas	s Shallow X	Deep			
	Horizontal X				
6) Existing Pad: Yes or N					
	ation(s), Depth(s), Antici 130ft, Base 7230 ft, Anticip				psi/ft
8) Proposed Total Vertica	al Depth: 7220 ft				
9) Formation at Total Ve	rtical Depth: Marcellus	Shale			
10) Proposed Total Meas	ured Depth: 7790 ft				
11) Proposed Horizontal	Leg Length: 0 ft				
12) Approximate Fresh V	Vater Strata Depths:	174', 232', 260', 3	372', 488', 609)', 680'	
13) Method to Determine	Fresh Water Depths: O	ffsetting well reported w	ater depths (033-5	931, 033-059	41, 033-5949, 033-5950)
14) Approximate Saltwat	er Depths: None expect	ed			
15) Approximate Coal Se	am Depths: Bakerstown - 226', B	rush Creek - 326', U Freeport - 4	01', L Freeport - 441', U K	ittanning - 531', M K	Cittanning - 596', L Kittanning - 616'
16) Approximate Depth to	o Possible Void (coal mir	ne, karst, other): N	lone Known		
17) Does Proposed well ledirectly overlying or adjacet		Yes	No	Х	
(a) If Yes, provide Mine	e Info: Name:				
	Denth:				
DECEMBED.	Seam:				
Office Of Oil and Gas	Owner				
APR 1 2025					
WV Department					

WV Department of Environmental Protection

Kenny Willett 3/25/25

Page 1 of 3 04/11/2025

WW-6B
(04/15)

47033 API NO. 47-	06	086
OPERATOR WELL		213
Well Pad Name: JOs	born	

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	24	New	H-40	102.7	80	80	CTS
Fresh Water	13.375	New	J-55	54.5	800	800	CTS
Coal							
Intermediate	9.625	New	J-55	40	1,500	1,500	стѕ
Production	5.5	New	P-110	23	7,790	7,790	TOC @ 1,350
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	24	36			0	Cless A/L, 3% CaCl2	1.2
Fresh Water	13.375	17.5	0.38	2,730	900	Class A/L, 3% CaCl2	1.2
Coal							
Intermediate	9.625	12.25	0.395	3,950	1,500	Class A/L, 3% CaCl2	1.29
Production	5.5	8.5-8.75	0.415	14,520	9,500	Class A/L, Poz	1.29/1.34
Tubing			-		5,000		
Liners							

PACKERS

Kind:		
Sizes:		
Depths Set:		

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Page **2** of **3** 04/11/2025

API NO. 477 0	3	3	0	6	0	8	6
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OPERATOR WELL NO. 213

Well Pad Name: J Osborn

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

The well will be started with a conductor rig drilling a 36" hole to Conductor programmed depth then running 24" casing and circulate cement back to surface. The conductor rig will move out and the drilling rig will move in and rig up. The drilling rig will then spud a 17 ½" hole and drill to fresh water casing (Surface) to the programmed depth, Run 13- 3/8" casing and cement to surface. The rig will continue drilling a 12- ¼" intermediate hole to the programmed depth, run 9- 5/8" casing and cement to surface. The rig with then continue to drill an 8- ¾" hole to a designed KOP. We will then start drilling the curve and lateral section to the programmed total measured depth, run 5 ½" casing and cement according to the program.

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

The well will be completed using a plug and perforation method and stimulated with a slickwater and sand slurry. The anticipated maximum rate will be 90 bpm and the maximum pressure will be 11,500 psi.

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21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.26

22) Area to be disturbed for well pad only, less access road (acres): 6.63

23) Describe centralizer placement for each casing string:

24"- No centralizers 13 3/8" – one bow spring centralizer on every other joint 9 5/8" – one bow spring centralizer every third joint from TD to surface 5 ½" – one semi rigid centralizer on every joint from TD of casing to end of curve. Then every other joint to KOP. Every third joint from KOP to 2,700'; there will be no centralizers from 2.700' to surface.

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

24" will be circulated to surface. The 13 3/8" casing will be cemented to surface with Class A/L cement and no greater than 3% CaCl2 (calcium chloride). The 9 5/8" casing will be cemented to surface with Class A/L cement, & no greater than 3% calcium chloride. The 5 1/2" production string will be cemented back to 2,450" (+/- 150" above the casing shoe for the 9 5/8") with Class A/L Poz cement retarded (to extend pumpability) cellophane flaked for fluid loss, Bentonite gel as an extender (increased pumpability and fluid loss), a defoaming agent to decrease cement foaming during mixing to insure the cement is of proper weight to placement and possibly gypsum gas blocking additive to aid in blocking/gas migration (in combination with other additive mentioned here, helps cement achieve a "right angle" set) during the plastic phase of the cement set-up.

25) Proposed borehole conditioning procedures:

Top holes will be drilled with fresh water KOP. At KOP, the wellbore will be loaded with synthetic oil based mud, barite-weighted mud system with such properties as to build a filter-cake on the face of the bore-hole. This will provide lubricity as well as stabilizing the well bore. We will begin rotating the drill string and mud will be circulated upon reaching TD until no further cuttings are observed coming across the shaker screens. Once clean mud is circulated back to surface, we will pull three stands of drill pipe, load the hole, pull three strands and load the hole. The weight indicator on the rig will be monitored for any occurrences of drag and if any are noticed, we will re-run the previous stand of pipe pulled across and circulate 2x bottoms up while watching shakers for signs of cuttings. Once at the base curve, the string will be continuously rotated while pumping 2x bottoms up. We will pull three stands and fill the hole until we reach the vertical section of the well.

*Note: Attach additional sheets as needed.

Kenny Willett

3/25/25

Page 3 of 3 04/11/2025

Well Location Plat Page 4 Cross Section

4703306086

Arsenal Resources Applicant / Well Operator Name **DEP ID#**

J Osborn HSOP 16 Pad Harrison County, WV GL 1164' & 27' KB @ 1191.00usft

Well # 213



WELL PLAN

Operator Name: Arsenal Resources

Well/Farm Name: J Osborn HSOP 16 Pad

Name	TVD	Latitude	Longitude	TMD
J.O. HSOP-213_ SHL	0.00	39.266445	-80.218117	0.00
J.O. HSOP-213 KOP	900.00	39.266445	-80.218117	6771.18
J.O. HSOP-213 LP	7220.00	39.266621	-80.223099	7790.11

SECTION DETAILS



Permit #

NOTES:

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WV Department of **Environmental Protection**

I -	SECTION DETAILS	Environmental Protection
	MD Inc Azi TVD +N/-S +E/-W Dleg TFace VSect Annotation 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	
	900.00 0.00 0.00 900.00 0.00 0.00 0.00	
H	3000.00 0.00 0.00 3000.00 0.00 0.00 0.0	
	3455.80 18.23 245.52 3448.15 -29.79 -65.45 4.00 245.52 -6.84 Hold 18.23° 6771.18 18.23 245.52 6597.08 -459.56 -1009.50 0.00 0.00 -105.47 Curve KOP at 67771.18 MD 9	2400
Ш	6771.18 18.23 245.52 6597.08 -459.56 -1009.50 0.00 0.00 -105.47 Curve KOP at 67771.18 MD_9 7790.11 90.00 340.98 7220.00 75.45 -1410.01 9.00 95.18 530.85 LP @ 90° lnc/ 340.98° Az/ 7790.11"/ TVD	7220'
L		
-750	1 Y 1	est(-)/Fast(+) (400 usft/in)
1 3	J.O. HSOP-213_SHL	-600 -400 -200 g
1 3	J.D. ASOF-215_SHL	
I , 🗄		
0 =	, L _a	Ę.
1 =	KOP at 900.0 MD/900.0 TVD	F
1 1	213/DEP Plant	KOP at 900.0 MD/900.0 TVD 400
750	7220	\
1 ±	The state of the s	Build 4º/100
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1 =	2000 Build 4º/100	N N
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1 3	LP @ 90° Inc/ 340.98° Az/ 7790.11"/ TVD	7220'
ľ		7220'
<u> </u>	Hold 18.23°	4500
3000	\$3000	F 🗿
True Vertical Depth (1500 ugl/in) 00 01 01 01 01 01 01 01 01 01 01 01 01	7000	usl
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H4500	Curve KOP at 67771.18 MD 9°/180	E
=		E I
I ₫	5000 Curve KOP at 67771.18 MD_9°/180	-800
5250-3		-800
I "" I		E I
]	Tully @ 6937 TVD	<u> </u>
[6000	<u>:</u>
6000		G _ Azimuths to Grid North
1 ∃	I.P @ 90° lnc/ 340.98° Az/ 7790.11"/ TVD 7220"	True North: 0.46°
1 =	Marcellus @ 7145' TVD	Magnetic North: -8.98°
6750	/ / [/	Magnetic Field
""∃⁄	7000 213/DEP Plan1	Magnetic Field Strength: 51665.2nT
		Dip Angle: 65.83°
【 ■ 】	100	Date: 12/31/2021
7500	Lower Marcellus @ 7208' TVD	Model: HDGM2021_FILE
]		
1 0	nondaga @: 7241' TVD J.O. HSOP-213_1.P	I
·		J
	5250 -2625 0 2625 5250 7875 10500 13125 15750 18375 21000	
	Vertical Section at 340.98° (5250 usft/in)	04/11/2025
		0 1/ 1 1/2020

WW-6A1 (5/13)

Operator's Well No.

J Osborn 213

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 attached

Office Of Oil and Gas

APR 1 2025

WV Department of Environmental Protection

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:	203
By:	Dave Boyer
Its:	Director of Geology & Development Planning

Page 1 of ____

Attachment to WW-6A1, J OSBORN HSOP 213

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
1	J. Earl Teter, Widower; Irvin D.				
(00003703)	Teter and Vera Teter, his wife	Petro-Lewis Corp.	12.5+%	1062/405	116
	Petro-Lewis Corp.	Partnership Properties Co.		1072/213	
	Partnership Properties Co	Eastern American Energy			-
	Partnership Properties Co.	Corporation		1124/449	
	Eastern American Energy Corporation	Energy Corporation of America		59/879	<u>-</u>
	Energy Corporation of America	Greylock Production, LLC		1603/1121	
<u> </u>	Greylock Production, LLC	Mar Key, LLC		1607/855	
1 (00003704)	Gobel Osborn and Audrey Osborn, his wife and Judy Nicholson and Gary Nicholson, her husband	Petroleum Development Corporation	12.5+%	1074/420	72
	Petroleum Development Corporation	PDC Mountaineer, LLC		1440/364	
	PDC Mountaineer, LLC	River Ridge Energy, LLC		59/1263	
2 (00008352)	George T. Faris and Nell Steele Faris, his wife, Rachel F. Shuttleworth, widow, Florence Faris, single, and Nell Faris Shinn, widow	Delaware Gas Company	12.5+%	820/128	1562
	Delaware Gas Company	Union Carbide Corporation	_	845/221	
	Union Carbide Corporation	Creslenn Oil Company		897/286 898/258	<u> </u>
	Creslenn Oil Company	Deminex Oil Corporation	-	Delaware Secretary of State	
	Deminex Oil Corporation	Deminex U.S. Oil Company	<u>-</u>	Delaware Secretary of State	
	Deminex U.S. Oil Company	Southwest Exploration and		Delaware	
		Acquisition Company		Secretary of State	
	Southwest Exploration and			Delaware	
	Acquisition Company	Southwest Royalties		Secretary of State	
	Southwest Royalties	HG Energy II Appalachia, LLC		1605/194	
	HG Energy II Appalachia, LLC	Mar Key, LLC		1611/595	-

Attachment to WW-6A1, J OSBORN HSOP 213

Letter Designation/Number Designation on Plat	Grantor, Lessor, Assignor, etc.	Grantee, Lessee, Assignee, etc.	Royalty	Book/Page	Acreage
3 (00008233)	Charles Thomas Davis and Deborah A. Davis, husband and wife	NRM Petroleum Corporation	12.5+%	1097/75	47
	NRM Petroleum Corporation	Natural Resources Management Corporation		Unrecorded (WV Secretary of State)	
	Natural Resources Management Corporation	Edisto Resources Corporation		Unrecorded (WV Secretary of State)	
	NRM Operating Company, LP, Edisto Resources, NRM 1984-B Income, Ltd., and NRM 1984-D Income, Ltd.	Eastern American Energy Corporation		1216/558	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003 (also 59/879)	
	Energy Corporation of America	Greylock Production, LLC		1603/1121	
	Greylock Production, LLC	Mar Key, LLC		1607/855	
3 (00008232)	G. Lester Douglas and Mariellen Douglas, husband and wife	NRM Petroleum Corporation	12.5+%	1097/77	47
	NRM Petroleum Corporation	Natural Resources Management Corporation		Unrecorded (WV Secretary of State)	
	Natural Resources Management Corporation	Edisto Resources Corporation		Unrecorded (WV Secretary of State)	
	NRM Operating Company, LP, Edisto Resources, NRM 1984-B Income, Ltd., and NRM 1984-D Income, Ltd.	Eastern American Energy Corporation		1216/558	
	Eastern American Energy Corporation	Energy Corporation of America		1441/1003 (also 59/879)	
	Energy Corporation of America	Greylock Production, LLC		1603/1121	
	Greylock Production, LLC	Mar Key, LLC		1607/855	

Area of Review Report - J Osborn Pad, 213 to LP, Harrison County, WV

Well Name	API Number	Operator Name / Address	Well Type	Latitude	Longitude	Total Depth	Perforated Formation(s)	Producing Zones not Perforated
J Osborn HSOP 16 204	033-05931	Arsenal Resources, LLC	Existing	39.265907	-80.217852	24662	Marcellus Shale	NA
J Osborn HSOP 16 203	033-05941	Arsenal Resources, LLC	Existing	39.265924	-80.2179	24873	Marcellus Shale	NA
J Osborn HSOP 16 201	033-05949	Arsenal Resources, LLC	Existing	39.265958	-80.217997	25871	Marcellus Shale	NA
J Osborn HSOP 16 202	033-05950	Arsenal Resources, LLC	Existing	39.265941	-80.217949	25505	Marcellus Shale	NA

WV Department of Environmental Protection

APR 1 2025

BHL is located on topo map 9,089 feet south of Latitude: 39'17'30"

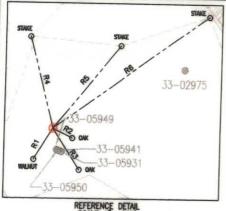
SHL is located on topo map 9,164 feet south of Latitude: 39'17'30"

BHL is located SHL is located

9 9 topo

map

west of Longitude: 80.12'30"
west of Longitude: 80.12'30"



33-05931	
5950	
REFERENCE DETAIL SCALE 1"= 800"	

LINE	BEARING	DISTANCE
R1	S 31'25'37" W	302.82
R2	S 63'28'24" E	182.59
R3	S 33'03'50" E	409.67
R4	N 15'03'12" W	774.95
R5	N 39'05'51" E	874.61
R6	N 54'11'19" E	1584.04

	J OSBORN HSOP 16 213	
	SURFACE HOLE LOCATION (SHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)	NAD83, GEOGRAPHIC
NORTHING: 4346636.238	NORTHING: 279972.886	LAT-(N) 39.266445
EASTING: 567450.391	EASTING: 1765184,207	LONG-(W) 80.218117
	BOTTOM HOLE LOCATION (BHL)	
UTM 17-NAD83 (M):	NAD83, WV NORTH (FT)	NAD83, GEOGRAPHIC
NORTHING: 4346652.104	NORTHING: 280048.410	LAT-(N) 39.266621
EASTING: 567020.475	EASTING: 1763774.355	LONG-(W) 80.223098

NOTES:

- There are no water wells or developed springs within 250 of proposed well.

 There are no existing buildings within 625 of proposed well.

 Proposed well is greater than 100 from perennial stream, wetland, pond, reservoir or lake.

 There are no native trout streams within 300 of proposed well.

 Proposed well is greater than 1000 from surface/groundwater intake or public water
- required well is greater than 1000 from surface/groundwater intake or public water supply. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

 Topo Mark Scale is 1°=2000'.



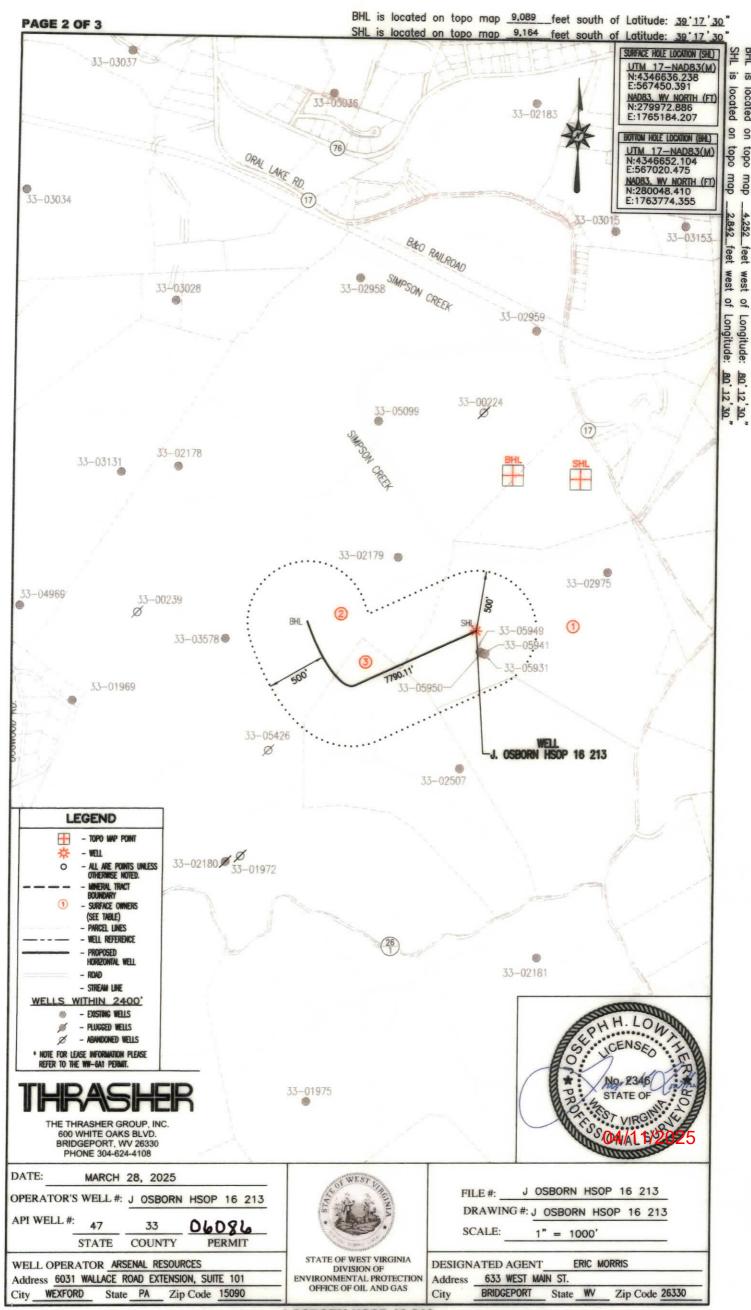


THE THRASHER GROUP, INC. 600 WHITE OAKS BLVD. BRIDGEPORT, WV 26330 PHONE 304-624-4108

SEE PAGE 2 FOR PLAT

SEE PAGE 3 FOR SURFACE OWNER TABLE

FILE #: J OSBORN HSOP 16 213	PLAT IS CORRECT TO	RSIGNED, HEREBY (SOHH. LOW
DRAWING #: J OSBORN HSOP 16 213	BELIEF AND SHOWS	ALL THE INFORMAT	ION REQUIRED BY	S. ICENSED I
SCALE: AS SHOWN	LAW AND THE REGUL THE DEPARTMENT O	ATIONS ISSUED AN	PROTECTION.	No. 2346
MINIMUM DEGREE		// //	2/1	D STATE OF
OF ACCURACY: 1/2500	Signed:	Voust Hol	I owther	A TOT VIBORITY CT
OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'	R.P.E.:	L.L.S.:	P.S. No. 2346	SONAL SUR
(+) DENOTES LOCATION OF WELL ON	January,	DATE		
UNITED STATES TOPOGRAPHIC MAPS	A OF WEST VIA	DATE.	MARCH 28,	2025
OFFICE OF OIL & GAS	E AT W. Z	OPERA'	TOR'S WELL #: J	OSBORN HSOP 16 213
601 57TH STREET	· deline		_	
CHARLESTON, WV 25304		API WE	LL#: 47	33 06086
011111111111111111111111111111111111111	San		STATE CO	OUNTY PERMIT
Well Type: Oil Waste Disposal	X Production	Deep	onnie c	JOHN TERMIT
☐ Gas ☐ Liquid Injection	Storage	Shallow		
WATERSHED: SIMPSON CREEK		EL	EVATION:	1163.90'±
COUNTY/DISTRICT: HARRISON / SI				
SURFACE OWNER: JUDY M OSBORN (LE)	(JUDY M OSBORN IRREVO	CABLE TRUST)	ACREAGE:	70.00±
OIL & GAS ROYALTY OWNER:60	BEL OSBORN, ET AL		ACREAGE:	1,399624/11/2025
DRILL X CON	VERT DRILL D	EEPER REDRI	LL FRACTU	RE OR STIMULATE X
				LUG & ABANDON
	REPLUG OTHER			zee a razini boli 🗀
TARGET FORMATION: MARCELLUS				
WELL OPERATOR ARSENAL RESOURCES				
Address 6031 WALLACE ROAD EXTENSION, SU		DESIGNATED AC	SENT ERIC MO	RRIS
City WEXFORD State PA 2	Zin Code 15090	Address 633 WE	OPT CLASS WA	7:- 0-1-00770
State TR Z	The Code	City DRIDGEP	State W	Zip Code 20330



2. E.

99

map

feet

9

Longitude:

J OSBORN WELL 213				
ID	SURFACE OWNER	DIST-TM-PAR	ACREAGE	
1	OSBORN JUDY M (LE) (JUDY M OSBORN IRREVOCABLE	15-0330-0005	56.67	
2	HARRON CAROLYN S	15-0330-0003	355.02	
3	DAVIS CHARLES THOMAS II	15-0330-0004	41.84	
2	HARRON CAROLYN S	15-0330-0003	355.02	



THE THRASHER GROUP, INC. 600 WHITE OA (3.44.VP.1/2025 BRIDGEPORT, WV 26330 PHONE 304-624-4108

DATE: MARCH 28, 2025

OPERATOR'S WELL#: J OSBORN HSOP 16 213

API WELL#: 47 33 06 086

STATE COUNTY PERMIT

WELL OPERATOR ARSENAL RESOURCES
Address 6031 WALLACE ROAD EXTENSION, SUITE 101
City WEXFORD State PA Zip Code 15090



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS FILE #: J OSBORN HSOP 16 213

DRAWING #: J OSBORN HSOP 16 213

SCALE: N/A