

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-095-02772 County TYLER District CENTERVILLE
Quad WEST UNION Pad Name SHR37 Field/Pool Name _____
Farm name CNX GAS COMPANY LLC Well Number SHR37OHSM
Operator (as registered with the OOG) CNX GAS COMPANY LLC 494458046
Address 1000 HORIZON VUE DRIVE City CANONSBURG State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4356027.989 Easting 513285.262
Landing Point of Curve Northing 4355824.580 Easting 513238.725
Bottom Hole Northing 4352579.223 Easting 514426.877

Elevation (ft) 828' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
SYNTHETIC BASED FLUID

ADDITIVES: ABS MUL (EMULSIFIER), CALCIUM CHLORIDE, FLR PLUS (GILSONITE), CLAYTONE EM (SUSPENSION AGENT), AES WA II (WETTING AGENT), LIME

Date permit issued 12.16.2021 Date drilling commenced 05.12.2022 Date drilling ceased 05.24.2022
Date completion activities began 07.31.2022 Date completion activities ceased 09.18.2022
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 92', 126', 144', 148', 150', 176', 220' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,748' 2,458' Void(s) encountered (Y/N) depths N
Coal depth(s) ft No mineable seams; trace @ 154', 526', 618', 955', 992, 1044. Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
Steve M. Cox
2/19/23
03/17/2023

WR-35
Rev. 8/23/13

API 47-095 - 02772 Farm name CNX GAS COMPANY LLC Well number SHR370HSM

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	20"	100'	NEW	94 lb/ft	N/A	GROUT TO SURFACE
Surface	17.5"	13.375"	360'	NEW	J-55 54.5 lb/ft	N/A	Y - CEMENT TO SURFACE
Coal							
Intermediate 1	12.25"	9.625"	5,228'	NEW	J-55 36 lb/ft	N/A	Y - CEMENT TO SURFACE
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	18,020'	NEW	P-110 20 lb/ft	N/A	Y - TOC @ 395'
Tubing							
Packer type and depth set		Mechanical 2,656'					

Comment Details ALL DEPTHS ARE REFERENCE TO GROUND LEVEL (-28' KB)

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	READY MIX	10 YARDS					
Surface	HALCEM	295	15.8	1.17	345	SURFACE	8
Coal							
Intermediate 1	HALCEM / HALCEM	695 (1st) / 850 (2nd)	15.8 / 15.8	1.20 / 1.15	834 / 978	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	EXP NEOCEM / NEOCEM	1,025 (L) / 3,115 (T)	15.0 / 15.0	1.07 / 1.07	1,097 / 3,333	395'	8
Tubing							

Drillers TD (ft) 18,055' (MD @GL) Loggers TD (ft) 18,055' (MD @GL)
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,592' (MD @GL)

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
SURFACE = 4 Centralize every other joint from shoe to surface
INTERMEDIATE = 61 Centralize every other joint from shoe to surface
PRODUCTION = 376; Centralize every joint from shoe to TOC

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS Plug and perforation

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED

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03/17/2023

API 47- 095 - 02772 Farm name CNX GAS COMPANY LLC Well number SHR370HSM

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>MARCELLUS (landing point)</u>	<u>6,287'</u> TVD	<u>6,710'</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1450 psi Bottom Hole _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 4542.40 mcfpd Oil 70 bpd NGL _____ bpd Water 669 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

	<u>0</u>		<u>0</u>		
					FORMATION LOG ATTACHED

Please insert additional pages as applicable.


Drilling Contractor PATTERSON UTI DRILLING
Address 100 GALLAWAY DRIVE City EIGHTY FOUR State PA Zip 15330

Logging Company SCHLUMBERGER
Address 3600 BRIARPARK DRIVE City HOUSTON State TX Zip 77042

Cementing Company HALLIBURTON
Address 1000 NOBLE ENERGY DRIVE, SUITE 400 City CANONSBURG State PA Zip 15317

Stimulating Company EVOLUTION WELL SERVICES
Address 1780 HUGHES LANDING BLVD., SUITE 125 City THE WOODLANDS State TX Zip 77380

Please insert additional pages as applicable.

Completed by MICHAEL HONCE Telephone 304-406-3909
Signature  Title Superintendent Completions Operations Date 11/17/2022

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

03/17/2023

SHR37OHSM - PERFORATION RECORD - ATTACHMENT 1

Stage No.	Perforation Date	Perforated From MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/23/2022	17,885.54	17,989.40	24	Marcellus Shale
2	7/31/2022	17,642.94	17,824.10	40	Marcellus Shale
3	8/1/2022	17,418.94	17,600.10	40	Marcellus Shale
4	8/2/2022	17,194.94	17,376.10	40	Marcellus Shale
5	8/2/2022	16,970.94	17,152.10	40	Marcellus Shale
6	8/3/2022	16,746.94	16,928.10	40	Marcellus Shale
7	8/4/2022	16,522.94	16,704.10	40	Marcellus Shale
8	8/7/2022	16,298.94	16,480.10	40	Marcellus Shale
9	8/7/2022	16,074.94	16,256.10	40	Marcellus Shale
10	8/7/2022	15,850.94	16,032.10	40	Marcellus Shale
11	8/8/2022	15,626.94	15,808.10	40	Marcellus Shale
12	8/8/2022	15,402.94	15,584.10	40	Marcellus Shale
13	8/9/2022	15,178.94	15,360.10	40	Marcellus Shale
14	8/9/2022	14,954.94	15,136.10	40	Marcellus Shale
15	8/9/2022	14,730.94	14,912.10	40	Marcellus Shale
16	8/9/2022	14,506.94	14,688.10	40	Marcellus Shale
17	8/10/2022	14,282.94	14,464.10	40	Marcellus Shale
18	8/10/2022	14,058.94	14,240.10	40	Marcellus Shale
19	8/10/2022	13,834.94	14,016.10	40	Marcellus Shale
20	8/11/2022	13,610.94	13,792.10	40	Marcellus Shale
21	8/11/2022	13,386.94	13,568.10	40	Marcellus Shale
22	8/11/2022	13,162.94	13,344.10	40	Marcellus Shale
23	8/11/2022	12,938.94	13,120.10	40	Marcellus Shale
24	8/12/2022	12,714.94	12,896.10	40	Marcellus Shale
25	8/12/2022	12,490.94	12,672.10	40	Marcellus Shale
26	8/12/2022	12,266.94	12,448.10	40	Marcellus Shale
27	8/12/2022	12,042.94	12,224.10	40	Marcellus Shale
28	8/12/2022	11,818.94	12,000.10	40	Marcellus Shale
29	9/13/2022	11,594.94	11,776.10	40	Marcellus Shale
30	9/13/2022	11,370.94	11,552.10	40	Marcellus Shale
31	9/13/2022	11,146.94	11,328.10	40	Marcellus Shale
32	9/13/2022	10,922.94	11,104.10	40	Marcellus Shale
33	9/14/2022	10,698.94	10,880.10	40	Marcellus Shale
34	9/14/2022	10,474.94	10,656.10	40	Marcellus Shale
35	9/14/2022	10,250.94	10,432.10	40	Marcellus Shale
36	9/14/2022	10,026.94	10,208.10	40	Marcellus Shale
37	9/14/2022	9,802.94	9,984.14	40	Marcellus Shale
38	9/15/2022	9,578.94	9,760.14	40	Marcellus Shale
39	9/15/2022	9,354.94	9,536.14	40	Marcellus Shale
40	9/15/2022	9,130.94	9,312.14	40	Marcellus Shale
41	9/15/2022	8,906.94	9,088.14	40	Marcellus Shale
42	9/16/2022	8,682.94	8,864.14	40	Marcellus Shale
43	9/16/2022	8,458.94	8,640.14	40	Marcellus Shale
44	9/16/2022	8,234.94	8,416.14	40	Marcellus Shale
45	9/16/2022	8,010.94	8,192.14	40	Marcellus Shale
46	9/17/2022	7,786.94	7,968.14	40	Marcellus Shale
47	9/17/2022	7,562.94	7,744.14	40	Marcellus Shale
48	9/17/2022	7,338.04	7,520.04	40	Marcellus Shale
49	9/17/2022	7,113.04	7,295.04	40	Marcellus Shale
50	9/18/2022	6,888.04	7,070.04	40	Marcellus Shale
51	9/18/2022	6,663.04	6,845.04	40	Marcellus Shale

03/17/2023
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SHR37OHSM - STIMULATION INFORMATION PER STAGE - ATTACHMENT 2

Stage No.	Stimulations Date	Ave Pump Rates (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/Other (units)
1	7/31/2022	85	8,382.00	7,438.00	3,343.00	441,312.10	7,114.21	N/A
2	8/1/2022	81	8,816.00	6,394.00	4,762.00	324,328.40	7,810.90	N/A
3	8/1/2022	87	8,296.00	7,465.00	5,358.00	408,360.20	7,284.52	N/A
4	8/2/2022	85	8,193.00	7,027.00	4,661.00	410,955.60	7,277.93	N/A
5	8/2/2022	85	8,185.00	7,285.00	4,948.00	422,261.10	7,199.40	N/A
6	8/3/2022	95	8,837.00	7,015.00	5,321.00	315,048.30	6,374.14	N/A
7	8/7/2022	95	8,784.00	6,710.00	4,758.00	386,787.80	6,916.95	N/A
8	8/7/2022	97	8,704.00	6,777.00	4,281.00	399,756.70	6,781.88	N/A
9	8/7/2022	98	8,670.00	6,704.00	4,066.00	393,351.50	6,730.98	N/A
10	8/8/2022	95	8,797.00	7,065.00	3,793.00	397,268.80	6,713.14	N/A
11	8/8/2022	95	8,747.00	6,811.00	4,057.00	399,273.30	6,342.33	N/A
12	8/9/2022	97	8,928.00	6,704.00	4,404.00	346,176.00	6,008.88	N/A
13	8/9/2022	96	8,881.00	6,255.00	3,723.00	351,234.60	6,112.67	N/A
14	8/9/2022	98	8,729.00	6,596.00	4,181.00	382,078.20	6,601.45	N/A
15	8/9/2022	98	8,605.00	6,189.00	3,997.00	397,175.00	6,522.62	N/A
16	8/10/2022	98	8,575.00	6,681.00	3,707.00	456,664.50	6,724.10	N/A
17	8/10/2022	98	8,859.00	6,307.00	3,689.00	424,164.90	6,437.21	N/A
18	8/10/2022	96	8,608.00	6,220.00	3,837.00	415,140.80	6,583.45	N/A
19	8/10/2022	99	8,572.00	6,457.00	3,847.00	402,250.00	6,451.76	N/A
20	8/11/2022	98	8,474.00	6,268.00	4,068.00	415,970.30	6,395.31	N/A
21	8/11/2022	98	8,661.00	6,424.00	3,890.00	396,809.60	6,145.93	N/A
22	8/11/2022	98	8,571.00	6,350.00	3,858.00	407,557.00	6,187.60	N/A
23	8/11/2022	102	8,840.00	6,404.00		179,958.00	3,803.55	N/A
24	8/12/2022	97	8,497.00	6,479.00	4,076.00	392,752.40	6,595.14	N/A
25	8/12/2022	98	8,483.00	6,450.00	3,924.00	397,828.40	6,145.60	N/A
26	8/12/2022	99	8,395.00	6,165.00	3,767.00	409,398.00	6,255.52	N/A
27	8/12/2022	98	8,357.00	6,478.00	3,955.00	410,612.40	6,171.24	N/A
28	9/13/2022	99	8,075.00	6,587.00	3,905.00	405,866.00	6,351.00	N/A
29	9/13/2022	97	8,153.00	6,918.00	3,829.00	398,163.00	7,190.02	N/A
30	9/13/2022	97	8,219.00	6,319.00	4,099.00	325,008.20	5,792.29	N/A
31	9/13/2022	98	8,004.00	6,624.00	4,865.00	393,564.70	6,242.71	N/A
32	9/13/2022	98	7,914.00	6,356.00	4,299.00	392,929.40	6,569.76	N/A
33	9/14/2022	98	7,901.00	6,375.00	4,177.00	391,040.30	6,439.00	N/A
34	9/14/2022	98	7,989.00	6,357.00	4,597.00	409,404.10	6,297.02	N/A
35	9/14/2022	100	7,882.00	6,879.00	4,491.00	398,641.30	6,324.83	N/A
36	9/14/2022	98	7,774.00	6,663.00	4,344.00	403,592.70	6,317.40	N/A
37	9/15/2022	99	7,882.00	6,544.00	3,957.00	406,395.40	6,203.57	N/A
38	9/15/2022	98	8,116.00	7,217.00	4,226.00	339,717.00	5,623.98	N/A
39	9/15/2022	100	7,699.00	6,998.00	3,837.00	405,346.00	6,210.00	N/A
40	9/15/2022	99	7,686.00	6,621.00	3,881.00	397,007.70	6,117.98	N/A
41	9/16/2022	98	7,675.00	6,982.00	3,791.00	398,709.90	6,163.00	N/A
42	9/16/2022	99	7,718.00	6,714.00	3,776.00	400,387.60	6,134.00	N/A
43	9/16/2022	101	7,430.00	6,148.00	3,904.00	406,652.30	6,096.98	N/A
44	9/16/2022	100	7,402.00	6,966.00	3,956.00	411,771.30	6,160.00	N/A
45	9/17/2022	99	7,544.00	6,939.00	3,971.00	393,478.60	6,006.00	N/A
46	9/17/2022	100	7,487.00	7,318.00	4,034.00	389,815.30	6,068.98	N/A
47	9/17/2022	102	7,496.00	7,156.00	3,915.00	398,332.50	6,081.98	N/A
48	9/17/2022	102	7,515.00	6,694.00	4,193.00	392,028.00	6,076.98	N/A
49	9/17/2022	100	7,427.00	6,704.00	3,799.00	381,850.60	6,129.00	N/A
50	9/18/2022	102	7,408.00	6,042.00	3,999.00	404,302.60	6,127.98	N/A
51	9/18/2022	101	7,563.00	6,080.00	4,795.00	393,756.60	6,138.98	N/A

03/17/2023
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API:4709502772

CNX RESOURCES LLC

WELL NAME: SHR370HSM

All depths are referenced to GLE

LITHOLOGIES

LITHOLOGY / FORMATION NAME	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
UNDIFFERENTIATED SAND	0	446	0	446	SANDSTONE / TRACES OF SILTSTONE & LIMESTONE & COAL
HARLEM COAL	446	449	446	449	COAL
UNDIFFERENTIATED SAND & SILTSTONE	449	1,611	449	1,611	SANDSTONE / TRACES OF GRAY SHALE, COAL, QUARTZ & SILTSTONE
BIG LIME	1,611	1,731	1,611	1,731	LIMESTONE / TRACES OF SILTSTONE
KEENER SHALE	1,731	1,921	1,731	1,921	SANDSTONE & SHALE
UNDIFFERENTIATED SAND & SILTSTONE	1,921	2,121	1,921	2,121	SANDSTONE & LIMESTONE / TRACES OF SILTSTONE
BEREA SAND	2,121	2,211	2,121	2,211	SANDSTONE / TRACES OF SILTSTONE & PYRITE
GORDON SAND	2,211	3,118	2,211	3,120	SANDSTONE / TRACES OF SILTSTONE & PYRITE
WARREN SAND	3,118	3,188	3,120	3,191	SANDSTONE AND SILTSTONE
UNDIFFERENTIATED SHALE	3,188	4,711	3,191	4,988	GRAY SHALE
BENSON	4,711	4,899	4,988	5,246	SANDSTONE
ALEXANDER	4,899	5,014	5,246	5,361	SANDSTONE AND SILTSTONE
UNDIFFERENTIATED SHALE	5,014	5,675	5,361	6,231	GRAY SHALE
CASHQUA	5,675	6,075	6,231	6,153	GRAY SHALE
MIDDLESEX	6,075	6,119	6,153	6,215	GRAY SHALE / TRACES OF SILTSTONE
WEST RIVER	6,119	6,188	6,215	6,329	GRAY SHALE
BURKET SHALE	6,188	6,224	6,329	6,404	BLACK SHALE, GAS SHOW
TULLY LIMESTONE	6,224	6,246	6,404	6,460	GRAY SHALE
HAMILTON SHALE	6,246	6,259	6,460	6,501	GRAY SHALE & LIMESTONE
UPPER MARCELLUS SHALE	6,259	6,266	6,501	6,527	BLACK SHALE
MIDDLE MARCELLUS SHALE	6,266	TD	6,527	TD	BLACK SHALE, GAS SHOW
TD - MARCELLUS		6264		18,024	

DM

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/31/2022
Job End Date:	9/18/2022
State:	West Virginia
County:	Tyler
API Number:	47-095-02772-00-00
Operator Name:	CNX Gas Company LLC
Well Name and Number:	SHR37OHSM
Latitude:	39.35359600
Longitude:	-80.84580600
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,287
Total Base Water Volume (gal):	13,781,754
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	CNX	Carrier/Base Fluid	Water	7732-18-5	100.00000	84.78454	None
Sand	US Silica	Proppant	Crystalline Silica in the form of Quartz	14808-60-7	99.90000	14.88654	None
HCL Acid (28%)	CHEMSTREAM	Acidizing	Hydrochloric Acid	7647-01-0	28.00000	0.06282	None
StimSTREAM 9800	CHEMSTREAM	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01462	None
			Butene, homopolymer	9003-29-6	25.00000	0.01462	None
			Ethoxylated alcohols	68213-23-0	3.00000	0.00175	None
CoilSTREAM VB 625	CHEMSTREAM	Gelling Agent	Heavy Aliphatic Naphtha	64742-96-7	60.00000	0.00246	None
			Guar Gum	9000-30-0	50.00000	0.00205	None
			Trade Secret	9043-30-5	5.00000	0.00020	None
			Trade Secret	14808-60-7	3.00000	0.00012	None
			Trade Secret	1338-43-8	3.00000	0.00012	None
Clearal 268	CHEMSTREAM	Biocide					

DM

			Glutaraldehyde	111-30-8	20.00000	0.00216	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00032	None
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00032	None
StimStream SC 398	CHEMSTREAM	Scale Inhibitor					
			Bis(HexaMethylene Triamine Penta(Methylene Phosphonic Acid) (BHMT)	34690-00-1	10.00000	0.00133	None
ACI-250	CHEMSTREAM	Acid corrosion inhibitor					
			Methanol	67-56-1	45.00000	0.00050	None
			Ethylene glycol	107-21-1	20.00000	0.00022	None
			Trade Secret	72480-70-7	15.00000	0.00017	None
			N,N-Dimethylformamide	68-12-2	10.00000	0.00011	None
			2-Butoxyethanol	111-76-2	5.00000	0.00006	None
Citric Acid 50%	CHEMSTREAM	Iron Control Agent					
			citric acid	77-92-9	50.50000	0.00077	None
Ammonium Persulfate	CHEMSTREAM	Breaker					
			Ammonium Persulfate	7727-54-0	100.00000	0.00032	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Butene, homopolymer	9003-29-6	25.00000	0.01462	
			Guar Gum	9000-30-0	50.00000	0.00205	
			Ethoxylated alcohols	68213-23-0	3.00000	0.00175	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00032	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00032	
			Ethylene glycol	107-21-1	20.00000	0.00022	
			Trade Secret	9043-30-5	5.00000	0.00020	
			Trade Secret	72480-70-7	15.00000	0.00017	
			Trade Secret	14808-60-7	3.00000	0.00012	
			Trade Secret	1338-43-8	3.00000	0.00012	
			N,N-Dimethylformamide	68-12-2	10.00000	0.00011	
			2-Butoxyethanol	111-76-2	5.00000	0.00006	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

LATITUDE 39° 22' 30" TH: 3,525'

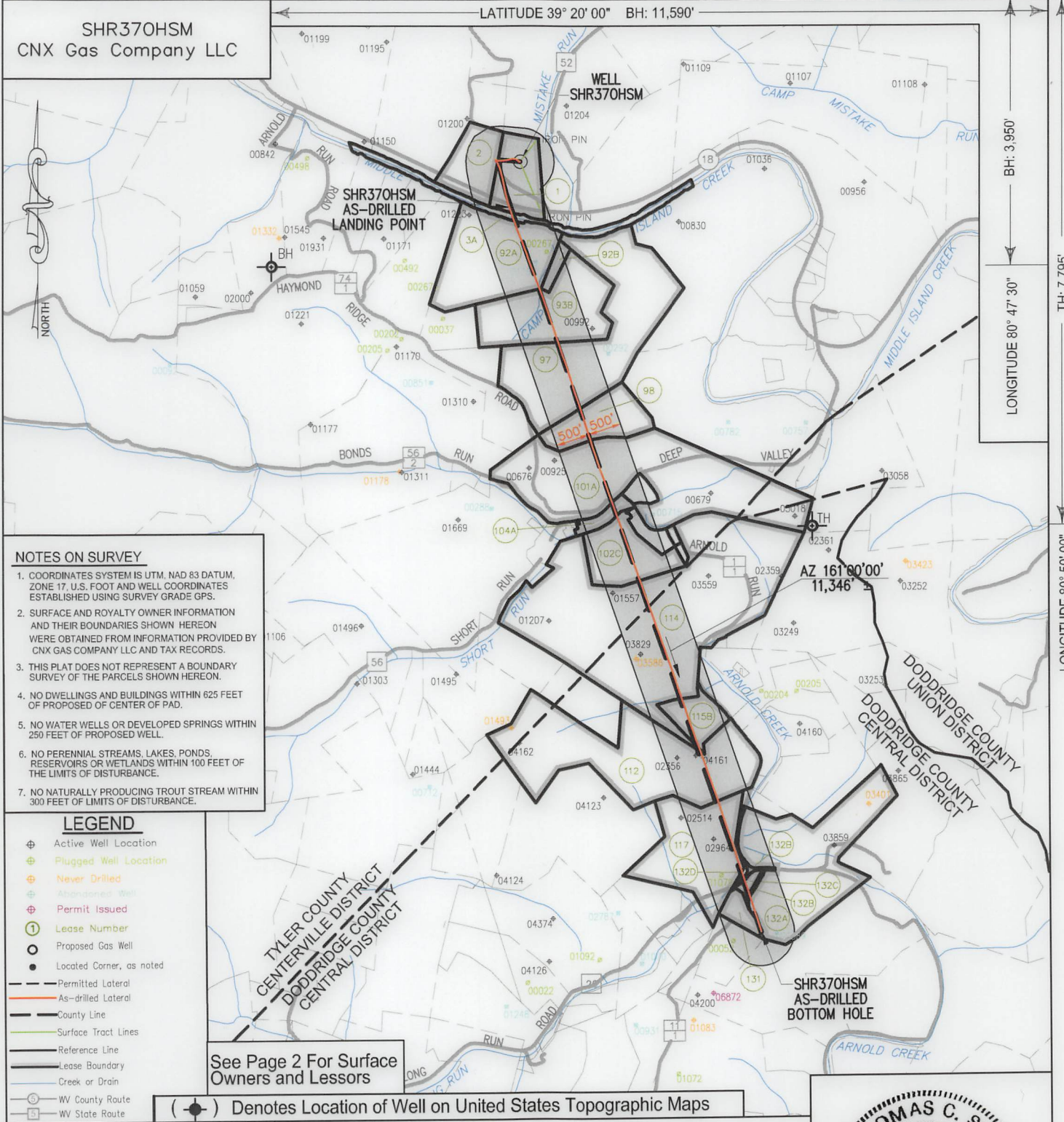
LATITUDE 39° 20' 00" BH: 11,590'

BH: 3,950'

LONGITUDE 80° 47' 30" TH: 7,795'

LONGITUDE 80° 50' 00"

SHR370HSM
CNX Gas Company LLC



NOTES ON SURVEY

1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE OBTAINED FROM INFORMATION PROVIDED BY CNX GAS COMPANY LLC AND TAX RECORDS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

LEGEND

- ⊕ Active Well Location
- ⊕ Plugged Well Location
- ⊕ Never Drilled
- ⊕ Abandoned Well
- ⊕ Permit Issued
- ① Lease Number
- Proposed Gas Well
- Located Corner, as noted
- Permitted Lateral
- As-drilled Lateral
- County Line
- Surface Tract Lines
- Reference Line
- Lease Boundary
- Creek or Drain
- ⊕ WV County Route
- ⊕ WV State Route

See Page 2 For Surface Owners and Lessors

(⊕) Denotes Location of Well on United States Topographic Maps



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

Thomas C. Smit

L. L. S. 687



SEAL

FILE NO: _____
 DRAWING NO: _____
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1:2500
 PROVEN SOURCE OF ELEVATION: SG-GPS (OPUS)

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



DATE: AUGUST 09 20 22
 OPERATORS WELL NO: SHR370HSM
 API WELL NO: 47 - 095 - 02772
 STATE COUNTY PERMIT

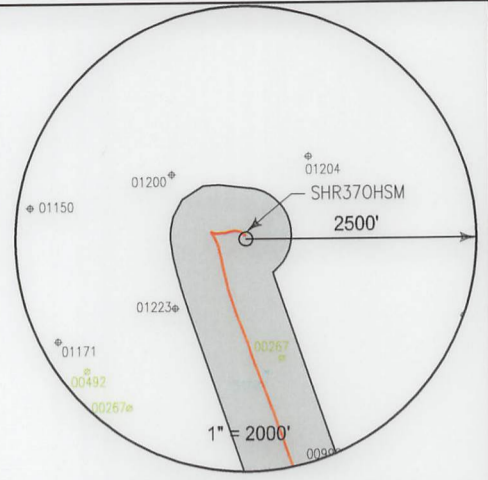
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
 LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
 DISTRICT: Centerville COUNTY: Tyler
 SURFACE OWNER: CNX Gas Company LLC ACREAGE: 18 ±
 ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'

WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
 ADDRESS: 1000 Consol Energy Drive ADDRESS: 1000 Consol Energy Drive
 Canonsburg, PA 15317 Canonsburg, PA 15317

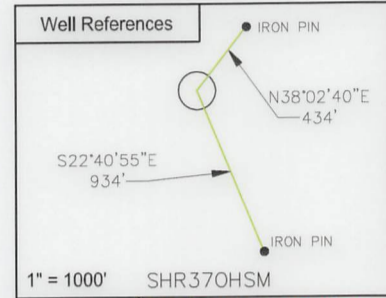
AS-DRILLED

SHR370HSM
CNX Gas Company LLC

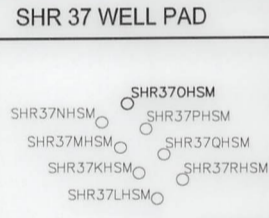
PAGE 2 OF 6



	SURFACE OWNER	LESSOR	PIN
1	CNX Gas Company LLC	Nancy P. McLain and Ralph E. McLain Pursie E. Pipes and Norma J. Pipes Bradie Pipes and Goldie Pipes Georgia P. Snyder Agnes Godwin a/k/a Georgia Agnes Godwin Luella I. McConnell Clella Boice Eleanor V. Earnheart and Dean A. Earnhart Dorothy Belle Wells and Byron Wells Myrna Morgan and David Morgan	1-17-5
2	Gail Williamson	Eleanor V. Earnheart and Dean A. Earnheart, her husband Clella Boice, widow Luella I. McConnell, widow Agnes Godwin, widow Nancy P. McLain and Ralph E. McClain, wife and husband Georgia P. Snyder, divorced Bradie Pipes and Goldie Pipes, his wife Pursie Pipes and Norma J. Pipes, husband and wife Dorothy Belle Wells and Byron Wells, her husband Wanda Weekley, widow Myrna Morgan and David Morgan, her husband Reva D. Rowland, a/k/a Reva Rowland and Ronald Royce Rowland	1-17-6
3A	West Virginia Division of Natural Resources	West Virginia Division of Natural Resources	Middle Island Creek
92A	Samuel V Ash & Denise Rule	A.E. Doak and Callie Doak	1-17-4
92B	Ryan & Carrie L Davis	A.E. Doak and Callie Doak	1-17-15.1
93B	Ryan Davis & Carrie L Davis	Ancel Doak and Flora Doak, H/W Goldie McKittrick, widow	1-17-15
97	Ryan Davis & Carrie L Davis Ryan & Carrie L Davis	Pearl I. Slack	1-17-15 1-18-7
98	Elden L Pratt, Dean Rodney & Timothy Ray Pratt	Norma Long Beverly Ann Underwood	1-17-11
101A	Ralph Paul McCutchan	Barbara McClain Yale University Tina Marie Vickery fka Tina Marie Greenwood Cheryl Denise Ismert fka Cheryl Denise Cole Shari Greenwood Gary Lee Greenwood Randall Allen Pratt Chad Greenwood AMP Fund III, LP Mary Ann Webster, Trustee of the Webster Living Trust, dated December 19, 2001	1-18-11
102C	Arnolds Creek Christian Church William J Stanley	Margaret C. Nied Helen C. Dahle James P. Cullinan Mary C. Schilling Trust - 2010, by Keith Schilling, Trustee William Paul McCutchan and Virginia B. McCutchan Kathleen Bradford Upton William Warren Upton and Frances J. Upton, H/W Marie L. Bradford, widow and heir under the Last Will and Testament of James Perry Bradford	1-18-9 1-18-10
104A	William L Stringham & Kelly F Stringham	James Marr Southern and Penny G. Southern, H/W Ronald J. McBee Connie Sue Conrad James Lee Phillips aka James L. Phillips Clyde Williams Phillips aka Clyde W. Phillips Joyce E. Matthews Chad W. Johnson Janice Coffindaffer Sandra Jean Fox Harry R. Fox	1-18-8

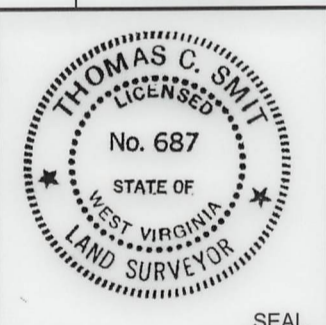


SURFACE HOLE LOCATION (SHL)	
UTM 17 NAD 83	N: 4356027.989
	E: 513285.262
NAD 83, WV NORTH	
	N: 313753.283
	E: 1587956.469
LAT/LON DATUM NAD 83	
	LAT: 39°21'12.944"
	LONG: 80°50'44.900"
LANDING POINT	
UTM 17 NAD 83	N: 4355824.580
	E: 513238.725
NAD 83, WV NORTH	
	N: 313088.393
	E: 1587792.6171
LAT/LON DATUM NAD 83	
	LAT: 39°21'06.3482"
	LONG: 80°50'46.8588"
BOTTOM HOLE LOCATION (BHL)	
UTM 17 NAD 83	N: 4352579.223
	E: 514426.877
NAD 83, WV NORTH	
	N: 302373.5425
	E: 1591513.8546
LAT/LON DATUM NAD 83	
	LAT: 39°19'21.0040"
	LONG: 80°49'57.4666"



I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Department of Environmental Protection.

L. L. S.
L. L. S. 687



FILE NO:
DRAWING NO:
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1:2500
PROVEN SOURCE OF ELEVATION: NGS CORS Station



DATE: AUGUST 09 20 22
OPERATORS WELL NO: SHR370HSM
API WELL NO: 47 - 095 - 02772
STATE: COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION ELEVATION: 828' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union, WV 7.5'
DISTRICT: Centerville COUNTY: Tyler
SURFACE OWNER: CNX Gas Company LLC ACREAGE: 18 ±
ROYALTY OWNER: Eleanor V. & Dean A. Earnheart, et al. LEASE NO: 269278000 ACREAGE: 720.525 ±
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus ESTIMATED DEPTH: TVD: 6,302'
WELL OPERATOR: CNX Gas Company LLC DESIGNATED AGENT: Anthony Kendziora
ADDRESS: 1000 Consol Energy Drive Canonsburg, PA 15317 ADDRESS: 1000 Consol Energy Drive Canonsburg, PA 15317

03/17/2023

AS-DRILLED

SURFACE OWNER		LESSOR	PIN
		Stephen Fox	
		Troy Fox	
		Melanie L. Yoak	
		Kenneth J. Butler, Jr.	
		Bruce D. Knowlton	
		William Hubbard and Anita Joy Hubbard, H/W	
		Robert Hubbard and Barbara Hubbard, H/W	
		Bonnie Zelic	
		Bradley Hubbard	
		John Paul Smith, Jr.	
		Diane Mikes aka Dianna M. Mikes	
		Barbara McClain	
		James R. Underwood	
		Sherry Quay	
		Robert A. Wagner and Mabel L. Wagner, as Trustees of the Robert and Mabel Wagner Living Trust	
		Kathleen Cody	
		Charles H. Bower, Jr.	
		Desolyn Florence Doak	
		Brenda S. Ryan	
		John Paladino	
112	Lonnie C James	Lillie M. Shepherd	1-2-5
		Allegheny Land and Mineral Company	
		The Union National Bank as Trustee for Truman E. Gore and C. Burke Morris, u/a dtd. 8/25/1966	
114	Victor Goff Stinespring, Charter D. Stinespring Victor Stinespring et ux	Sonya Rickel and Joe Rickel Jr. W/H	1-2-1 1-2-1.2
		Charlotte Bryant and Ervin Bryant, W/H	
		Garrett G. Pyles	
		Janice Phelps and Harry Phelps, W/H	
		Robert F. Pratt and Glenna Z. Pratt, H/W	
		Kenneth E. Pratt and Laura L. Pratt, H/W	
		Janet P. Tinkham and Elwin I. Tinkham, W/H	
		Allen Pratt and Patricia Pratt, H/W	
		Jean Cole and Robert L. Cole, W/H	
		Dorothy A. Greenwood and Malcolm Greenwood, W/H	
		Margaret R. Mead and Richard F. Mead, W/H	
		Mary J. Borer and Donald E. Borer, W/H	
		Kenneth M. Wagner and Mary A. Wagner, H/W	
		John Paladino	
		Patty Lou Fox and Harry R. Fox, W/H	
		Robert D. L. Doak	
		Ida Bower	
		Jack Coffindaffer and Janice Lee Coffindaffer, H/W	
		Esther Doak	
		Virginia McBee and Robert McBee, W/H	
		Karen Y. Meiter and Robert Lynn Meiter, W/H	
		Paul Wagner and Joan Wagner, H/W	
		Leona Smith and John Smith, W/H	
		Sylvia Knowleton and Cleo Knowleton, W/H	
		Ruth M. Hubbard	
		Ina M. Wagner	
		Juliana M. Moore	
		Gussie Devoll	
		Martha Moore Hanson and Peter S. Hanson, W/H	
		Vonda Wagner	
		Wayne Kellar and Peggy Kellar, H/W, aka Wayne Kellar and Margaret H. Kellar, H/W	
		Catherine Moore	
		C. H. Wagner and Olive Irene Wagner, H/W	
		Darryl Pratt	
		Mary D. Southern	
		Wilda Doak	
		Beverly Delancey and Eleanor Knight and Stanford Knight, W/H and James W. Ash and Hazel Ash, H/W, Lelia Washburn, Charlene Smith and George Smith, W/H, and Barbara Thalrose and Harold Thalrose, W/H	
		Theresa Pratt	
		Sherry Lynn Quay	
115B	Gary R Furby	C. Lynn Curran	1-2-2.1
		John Clifton Dowdy	
		Terri Kathleen Corathers Arbogast	
		April Suzanne Corather Wallace	
		Joy L. Cottrill	
		Carl Jackson Smith	
		Judith Ann Gierman	
		Karin A. Reddert	
		Laura Jean Houseman	
		Michael Dale Rogers	
		Mark Allen Rogers	
		Lyle Vance Rogers	
		John Cochran	
		Steven D. Cochran	

03/17/2023

SURFACE OWNER	LESSOR	PIN
	Alan Long	
	Ryan Wendel	
	Gary Eugene Criner	
	Jeremi Lyn Criner	
	Sharon Lee Criner Griffith	
	Cinda Lou Criner Lanham	
	Jonathon L. Criner	
	Gregory M. Smith	
	Gwendolyn S. Neville	
	Catherine A. Mark	
	John W. Casto	
	Charles Larry Cottrill	
	Cindy K. White	
	Cathleen Shultz	
	Lois A. Arcuri	
	Kenneth Clinton Cottrill	
	Colin D. Goddard	
	Robert C. Goddard	
	Bonnie C. Persohn	
	Addie Marie Leadmon	
	James A. Cottrill	
	William C. Montgomery	
	Mary Lou Dawson	
	Rella M. Dawson	
	Glenn H. Montgomery	
	John C. Montgomery	
	Barbara Kay Montgomery	
	Benjaimen Jacob Criner	
	Richard P. Criner	
	Clifford Warren Montgomery	
	Tricia Lynn Howard	
	Jeffrey David Montgomery	
	Scott Eric Montgomery	
	Skylar Ora Montgomery	
	Kendra K. Wyke	
	Robert W. Pernell	
	Marilyn K. Pernell	
	Sandra L. Shirey	
	Kimberly Ann Barnes	
	Michael A. Barnes	
	Randy Lee Barnes	
	Karen Sue Kinder	
	Sherry Barker	
	Harry Griffith	
	Larry Griffith	
	Lisa Meeks	
	Connie Metz	
	Joseph Smith	
	Richard Walton and Barbara R. Walton	
	Sarah L. Albright	
	Medley Brandl	
	Sarah Bolling	
	Antero Minerals LLC	
	Clydette Sherryl Cowgar, aka Sheryl Clydette Cowgar	
	Kathleen Ann Parrish	
	Delmas McKinney and Wanda R. McKinney, H/W	
	Linda McKinney Mercer	
	Ella Ruth Walton	
	Deward Whitehair, Jr.	
	Evelyn Jean Walton Bailey	
	James L. Hitt	
	Yvonne Elizabeth Roberts, Sole Successor Trustee of the Pursglove Family Trust, dated 2/7/2000	
	Cheryl A. Hampton, fka, Cheryl A. Snyder	
	James Vincent Profaci	
	Diana Louise Pursglove	
	Beverly D. Roy fka Beverly D. Merali and Ian Roy, W/H	
	Debbie Barnes, aka Debbie Summers	
	David Parks and Carla D. Parks H/W	
	Sandra Law	
	Sonja Putnam	
	Peggy Johnson	
	Stephen M. Hiley	
	Isaac Criner	
	Chad W. Johnson	
	James W. Ebbs	
	Carole Hanlon	
	Jane Diane Burrough aka Janie Diane Burrough	

03/17/2023

	SURFACE OWNER	LESSOR	PIN
		Michael Dean Walton	
		Anita Jane Spadafora	
		Alice M. Bull	
		Gary Lee Walton	
		Annette Jill Walton aka Annette Jill Naylon	
		Jack Arnold Walton	
		Leonard Francis Cooke Jr.	
		Susan Lee Burns fka Susan Lee Baer	
		James F. Baer	
		Gregory M. Barnes	
		Jake Brandl, aka James J. Brandl	
		Angela Jean Garrison, fka Angela Jean Fittrow	
		Alisa Lynn Profaci	
		William Appleton	
		Arlena Appleton	
		Jared Appleton	
117	Lonnie C James	Mrs. Sylvia Wulfert, Ruby Hunt, Mr. Lynn Wulfert	1-4-6
		U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers	
		U. G. Summers Estate: William G. Summers and Kathryn Summers, H/W, Hector Keith Summers, Pauline Summers, Kathleen Clara Summers	
		Lorena G. Hammer	
		Ardenna Kay Rienstra	
		EIGG Land Limited	
		Robert Swearingen	
		Sandra Swearingen	
		Charles W. Hendrickson and Elizabeth Hendrickson	
		Terry L. Snider	
		Martha Ann Hanes	
		Mary Garland Hanes	
		Nicholas Osborne Hanes	
		Barbara G. Clark	
		Donald Reynolds, aka Donald R. Reynolds	
		Ronald Glenn Hurst	
		James Lee Hurst, Sr.	
		Pamela Sue Summers	
		Kathy Mae Fenstermaker	
		David Leroy Gray	
		David Charles Hurst	
		Westlake Energy Partners, LLC	
		Cynthia Gray	
		Linda Sue Oxendine	
		Tina Hurst	
		Kitty Ann Sams	
		Catherine L. Snider	
		Barbara L. Wilson	
		Aunix Acquisition Fund, LLC	
		Harold Wayne Hurst, aka H. Wayne Hurst	
		Rodney Gale Smith	
		Sandra S. DiGiacobbe fka Sandra S. Hurst and Ronald D. DiGiacobbe, W/H	
		Angela Fay Miller	
		Rebecca Ann Goff	
		Stephen Duane Jackson	
		Jeffery Allen Hurst	
		Richard Duane Hurst	
		Ed Broome, Inc.	
		Gwendalyn Rae Swartzfager fka Gwendalyn Rae Rose	
		Mark Allen Jackson and Andrea Jackson, H/W	
		Jennifer Lee Harris	
		Jack Lee Smith and Cyndi Smith, H/W	
		Norman L. Jackson	
		Annette N. Davis and David A. Davis	
		Ruth Ann Nicholson	
		Maria Alexandrovna Stihary aka Maria Alexandrovna Standafer	
		Warren Scott Standafer Testamentary Trust	
		Michael Keith Gearhart	
		Brian Philip Gearhart	
		Joseph Edward Gearhart	
		Jason Alan Gearhart	
		Melanie Faith Gearhart	
		Donald Wayne Hurst, Jr.	
		Vicki Dean aka Vicki Darlene Kriner	
		Glenn Richard Gray	
		Bruce Patrick Smith	
		Jamie Lynn Munn	
		Larry Arden Hurst	
		Donald Allen Hurst	

03/17/2023

	SURFACE OWNER	LESSOR	PIN
131	Carlie James	Arnold Lyle Stuart Katherine Foster Leggett Jeffrey S. Anderson Eric T. Anderson Brenda J. Fulton Timothy C. Philips Freda B. Jones Lorelei L. Phillips Carolyn S. Gaston Randall R. Leggett Elizabeth A. Guido Bernard K. Leggett Eleanor F. DeLawder Janice K. Snider S.J.J. Leggett Family LLC Jennifer L. Powers Beverlee A. Grose Kimberly K. Davis Zadok M. Leggett Kelleigh D. Beverlin	1-4-7.1
132A	Carlie & Karen M James	Ila M. Powell, Dennis H. Powell and Mellie M. Powell, H/W Jerry L. Davis Blanche Ford, widow, Blanche Ford POA for Leman L. Shinn, Thelma McCullough and Corbett McCullough her husband Helen P. Buff Lula L. Backus Clyde M. Shinn Mary Lee Scalf and Robert P. Scalf Betty Jean Dinella and John Dinella, W/H Roy R. Shinn and Evelyn Shinn, H/W Clarence W. Mutschelknaus and Mary F. Mutschelknaus, H/W Carlie James and Karen M. James, JTROS Sue Ann Gillies	1-4-7
132B	Carlie & Karen M James	Ila M. Powell, Dennis H. Powell and Mellie M. Powell, H/W Jerry L. Davis Blanche Ford, widow, Blanche Ford POA for Leman L. Shinn, Thelma McCullough and Corbett McCullough her husband Helen P. Buff Lula L. Backus Clyde M. Shinn Mary Lee Scalf and Robert P. Scalf Betty Jean Dinella and John Dinella, W/H Roy R. Shinn and Evelyn Shinn, H/W Clarence W. Mutschelknaus and Mary F. Mutschelknaus, H/W Carlie James and Karen M. James, JTROS Sue Ann Gillies The West Virginia Department of Transportation, Division of Highways	1-4-7
132C	Carlie & Karen M James	Ila M. Powell, Dennis H. Powell and Mellie M. Powell, H/W Jerry L. Davis Blanche Ford, widow, Blanche Ford POA for Leman L. Shinn, Thelma McCullough and Corbett McCullough her husband Helen P. Buff Lula L. Backus Clyde M. Shinn Mary Lee Scalf and Robert P. Scalf Betty Jean Dinella and John Dinella, W/H Roy R. Shinn and Evelyn Shinn, H/W Clarence W. Mutschelknaus and Mary F. Mutschelknaus, H/W Carlie James and Karen M. James, JTROS Sue Ann Gillies	1-4-7
132D	Carlie & Karen M James	Ila M. Powell, Dennis H. Powell and Mellie M. Powell, H/W Jerry L. Davis Blanche Ford, widow, Blanche Ford POA for Leman L. Shinn, Thelma McCullough and Corbett McCullough her husband Helen P. Buff Lula L. Backus Clyde M. Shinn Mary Lee Scalf and Robert P. Scalf Betty Jean Dinella and John Dinella, W/H Roy R. Shinn and Evelyn Shinn, H/W Clarence W. Mutschelknaus and Mary F. Mutschelknaus, H/W Carlie James and Karen M. James, JTROS Sue Ann Gillies	1-4-7

03/17/2023

API WELL NO

47 - 095 - 02772

STATE COUNTY PERMIT