

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

API 47-051-01893 County Marshall District Franklin
Quad Powhatan Point 7.5' Pad Name Greer Field/Pool Name _____
Farm name PPG Industries, Inc. Well Number 1N-5HU
Operator (as registered with the OOG) Tug Hill Operating, LLC
Address 1320 South University Drive, Suite 500 City Ft. Worth State TX Zip 76107

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,400,810.3 Easting 514,024.5
Landing Point of Curve Northing 4,400,540.4 Easting 513,322.6
Bottom Hole Northing 4,402,308.3 Easting 512,249.5

Elevation (ft) 1251' 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 **RECEIVED Office of Oil and Gas**

Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other **JUL 10 2020**

Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other **WV Department of Environmental Protection**

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)

SOBM; Base oil, osmotic inhibitor, weighting agent, viscosifier, emulsifier, hardness buffer, fluid loss additive, LCM, Shale inhibitor, de-foamer, soaping agent, coagulant, flocculant; specific additives per WSSP and Permit.

Date permit issued 1/30/2017 Date drilling commenced 5/8/2017 Date drilling ceased 9/11/2017

Date completion activities began 5/19/2019 Date completion activities ceased 6/22/2019

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 866' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1600' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 756-762' 850-856' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
Jim [Signature]
7/28/2020

API 47-051 - 01893

Farm name PPG Industries, Inc.

Well number 1N-5HU

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	36"	30"	120'	NEW	94.5#	N/A	Y
Surface	26"	20"	965'	NEW	106.5#	N/A	Y
Coal							
Intermediate 1	17 1/2"	13 3/8"	2861'	NEW	54.5#	N/A	Y
Intermediate 2	12 1/4"	9 5/8"	10257'	NEW	47#	N/A	Y
Intermediate 3							
Production	8 1/2"	5 1/2"	18656'	NEW	23#	N/A	Y
Tubing		2 7/8"	9328'	NEW	4.7#	N/A	
Packer type and depth set							

Comment Details _____

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	A		15.6	1.2		0	8
Surface	A	1816	15.6	1.2	2157	0	8
Coal							
Intermediate 1	A	2280	15.6	1.19	2690	0	8
Intermediate 2	A	2253	14.5	1.19	4190	0	8
Intermediate 3							
Production	A	4354	16.5	1.17	4600	0	8
Tubing							

Drillers TD (ft) 18,765 _____ Loggers TD (ft) _____

Deepest formation penetrated Trenton _____ Plug back to (ft) n/a _____

Plug back procedure n/a _____

Kick off depth (ft) _____

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 3 centralizers on surface casing at equal distance.

Intermediate - 1 centralizer every other joint.

Production - one centralizer every other joint in lateral, one centralizer every joint through curve, one centralizer every other joint to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

**Greer 1N-5HU
PEFORATION RECORD**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD. Ft.	Number of Perforations	Formation(s)
1	5/19/2019	18297	18446	48	Utica
2	5/20/2019	18097	18247	48	Utica
3	5/20/2019	17898	18047	48	Utica
4	5/20/2019	17698	17848	48	Utica
5	5/20/2019	17499	17648	48	Utica
6	5/21/2019	17300	17449	48	Utica
7	5/21/2019	17100	17250	48	Utica
8	5/21/2019	16901	17050	48	Utica
9	5/21/2019	16701	16851	48	Utica
10	5/22/2019	16502	16651	48	Utica
11	5/22/2019	16303	16452	48	Utica
12	5/22/2019	16103	16253	48	Utica
13	5/22/2019	15904	16053	48	Utica
14	5/23/2019	15704	15854	48	Utica
15	5/23/2019	15505	15654	48	Utica
16	5/23/2019	15306	15455	48	Utica
17	5/23/2019	15106	15256	48	Utica
18	5/24/2019	14907	15056	48	Utica
19	5/24/2019	14707	14857	48	Utica
20	5/24/2019	14508	14657	48	Utica
21	5/24/2019	14309	14458	48	Utica
22	5/24/2019	14109	14259	48	Utica
23	5/25/2019	13910	14059	48	Utica
24	5/25/2019	13710	13860	48	Utica
25	5/25/2019	13511	13660	48	Utica
26	5/26/2019	13312	13461	48	Utica
27	5/26/2019	13112	13262	48	Utica
28	5/26/2019	12913	13062	48	Utica
29	5/26/2019	12713	12863	48	Utica
30	5/26/2019	12514	12663	48	Utica
31	5/27/2019	12315	12464	48	Utica
32	5/27/2019	12115	12265	48	Utica
33	5/27/2019	11916	12065	48	Utica

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Greer 1N-5HU
STIMULATION INFORMATION PER STAGE

Stage No.	Ave. Pump Rate (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	76.2	10163	8394	6015	498560	11983	0
2	81.5	10095	9182	6620	503240	10258	0
3	87.9	10516	9307	6979	501160	9731	0
4	89	10537	8774	7081	545416	10603	0
5	84.3	10249	9586	6857	501445	10138	0
6	82.7	10261	10020	7379	513055	10665	0
7	87.8	10085	10085	7019	504275	10122	0
8	89.2	10783	9495	6979	501945	10213	0
9	85.1	10335	9485	7414	498615	10290	0
10	80	10185	10240	7446	499855	11489	0
11	81.8	10186	10099	7191	497205	10142	0
12	87.5	10302	8833	7471	500845	8855	0
13	88.5	10349	9348	7278	500585	10697	0
14	89.4	10212	8368	7306	495045	9442	0
15	87.8	10153	8566	7258	502385	8856	0
16	85.9	10186	8950	7539	502905	8692	0
17	89.1	10317	9091	7410	502615	10046	0
18	89.2	10337	8847	6218	506845	9243	0
19	89.3	10310	8796	7448	508310	9237	0
20	89.5	10185	8863	7324	499615	8725	0
21	89.3	10123	8847	7185	501190	8696	0
22	89.1	10081	8910	7411	505145	9171	0
23	89.2	9926	8384	6645	499110	9007	0
24	85.9	10054	8878	7105	498160	9206	0
25	89.3	9876	8097	7298	494290	8906	0
26	89.3	9875	8345	7029	500325	8810	0
27	89.3	9833	8593	7464	499165	8734	0
28	89.1	9650	7852	7072	499720	8506	0
29	81.8	9229	8308	7256	498400	8388	0

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Stage No.	Ave. Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
30	89.3	9557	7775	7220	502450	9705	0
31	89.3	9590	8150	7253	499330	8330	0
32	89.3	9768	8525	7549	504175	8641	0
33	82.7	9341	8446	7229	504595	8537	0

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Additional Lithology Information

FORMATION	TOP TVD	BASE TVD	TOP MD	BASE MD	DESCRIBE ROCKY TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S ETC)
Helderberg	6750	7103	6757	7115	Limestone
Salina	7103	8081	7115	8231	Salt/Anhydrite/LS
Lockport	8081	8431	8231	8642	Dolomite
Rose Hill	8431	8672	8642	8928	Shale
Packer Shell	8672	8888	8928	9183	Limestone
Clinton/Tuscarora	8888	8977	9183	9288	Sandstone
Juniata/Queenston	8977	9626	9288	10054	Red Shale
Reedsville	9626	10631	10054	11234	Grey Shale
Utica	10631	10901	11234	11723	Black Shale
Point Pleasant	10901	-	11723	-	Shale/Limestone

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/16/2019
Job End Date:	5/27/2019
State:	West Virginia
County:	Marshall
API Number:	47-051-01893-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Greer 1N 5HU
Latitude:	39.75700000
Longitude:	-80.83620000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	10,942
Total Base Water Volume (gal):	13,551,520
Total Base Non Water Volume:	0

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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
Fresh Water	Halliburton	Base Fluid					
			Water	7732-18-5	100.00000	86.61271	Density = 8.34
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.56049	

MC MX 8-4743	MultiChem	Additive					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
MC LD-2850	MultiChem	Friction Reducer					
				Listed Below			
Sand-Premium White-40/70	Halliburton	Proppant					
				Listed Below			
LEGEND(TM) LD-7750W	MultiChem	Scale Control					
				Listed Below			
Sand-Common White-100 Mesh, SSA-2	Halliburton	Proppant					
				Listed Below			
OilPerm A	Halliburton	Non-ionic Surfactant					
				Listed Below			
FDP-S1296-17	Halliburton	Acid Corrosion Inhibitor					
				Listed Below			
Sand-CRC-40/70	Halliburton	Proppant					

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				Listed Below			
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
			Crystalline silica, quartz	14808-60-7	100.00000	12.71374	
			Phenol / formaldehyde resin	9003-35-4	5.00000	0.06267	
			Hydrochloric acid	7647-01-0	7.50000	0.04078	
			Hexamethylenetetramine	100-97-0	2.00000	0.02507	
			Ethanaminium, N,N,N-trimethyl-2-[(1-oxo-2-propen-1-yl)oxy]-, chloride (1:1), polymer with 2-propenamide	69418-26-4	30.00000	0.02451	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02451	
			Sodium nitrate	7631-99-4	60.00000	0.02323	
			Sodium chloride	7647-14-5	10.00000	0.00864	
			Castor oil, ethoxylated	61791-12-6	10.00000	0.00817	
			Ammonium chloride	12125-02-9	10.00000	0.00817	
			Methanol	67-56-1	100.00000	0.00612	
			Alcohols, C12-16, ethoxylated	68551-12-2	5.00000	0.00408	
			9-Octadecenamide, n,n-bis-2(hydroxy-ethyl)-,(Z)	93-83-4	5.00000	0.00408	
			Sorbitan monooleate polyoxyethylene derivative	9005-65-6	5.00000	0.00408	
			Phosphoric Acid Salt	Proprietary	5.00000	0.00047	
			Ethanol	64-17-5	60.00000	0.00025	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00013	
			Oxyalkylated nonyl phenolic resin	Proprietary	30.00000	0.00013	
			Mixture of dimer and trimer fatty acids of indefinite composition derived from tall oil	61790-12-3	30.00000	0.00012	

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			Modified thiourea polymer	Proprietary	30.00000	0.00012	
			Formaldehyde	50-00-0	0.10000	0.00009	
			Hydroquinone monomethyl ether	150-76-5	0.10000	0.00008	
			Nitrotriacetic acid, trisodium salt monohydrate	5064-31-3	0.10000	0.00008	
			Diethanolamine	111-42-2	0.10000	0.00008	
			1,4-Dioxane	123-91-1	0.10000	0.00008	
			Sodium glycollate	2836-32-0	0.10000	0.00008	
			Ethylenediaminetetraacetic acid, tetrasodium salt	64-02-8	0.10000	0.00008	
			Oxyalkylated phenolic resin	Proprietary	10.00000	0.00004	
			Naphthalene	91-20-3	5.00000	0.00002	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00000	0.00002	
			Ethoxylated alcohols	Proprietary	5.00000	0.00002	
			Propargyl alcohol	107-19-7	5.00000	0.00002	
			Hexadecene	629-73-2	5.00000	0.00002	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00000	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

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WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
 FORT WORTH, TX 76107
 DESIGNATED AGENT DIANNA STAMPER
 CT CORPORATION SYSTEM
 ADDRESS 5400 D BIG TYLER ROAD
 CHARLESTON, WV 25313

WELL NO. 1N-5HU 47-051-01893
 DATE: JULY 17, 2018
 OPERATORS WELL NO. GREER 1N-5HU (AS-DRILLED)

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION STORAGE DEEP SHALLOW

LOCATION ELEVATION 1251' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER (UNDEFINED)
 DISTRICT FRANKLIN COUNTY MARSHALL
 QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE ATTACHED PG 2 THROUGH 6

COUNTY NAME SURFACE OWNER PPG INDUSTRIES, INC.
 OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC., ET AL
 LEASE ACRES 504.71
 ACREAGE 42.18

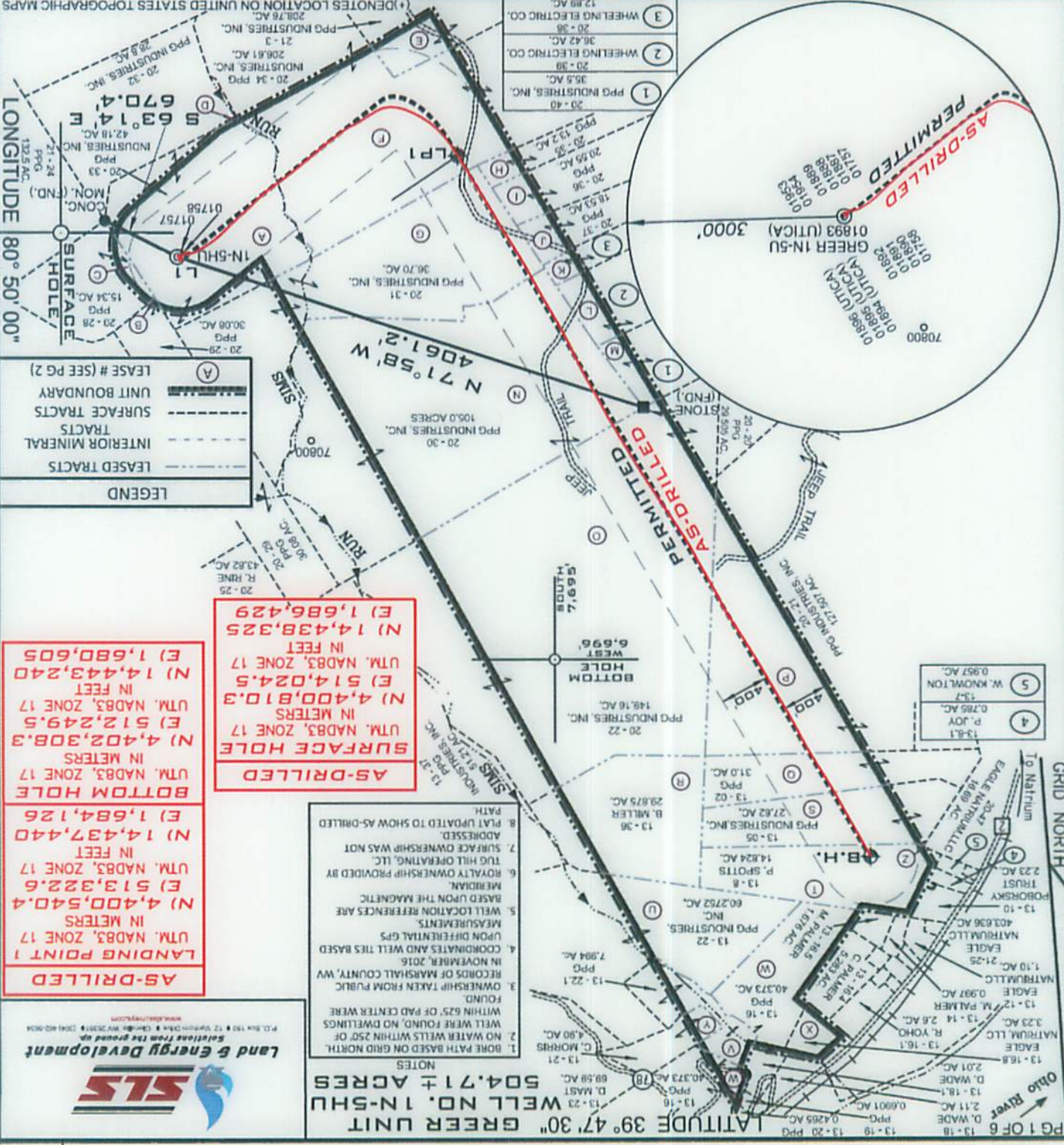
PERMIT TARGET FORMATION POINT PLEASANT
 ESTIMATED DEPTH TVD: 10,883' TMD: 18,765'
 CLEAN OUT & REFLUG
 PLUG & ABANDON
 OTHER PHYSICAL CHANGE (SPECIFY)
 PERFORM NEW FORMATION
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

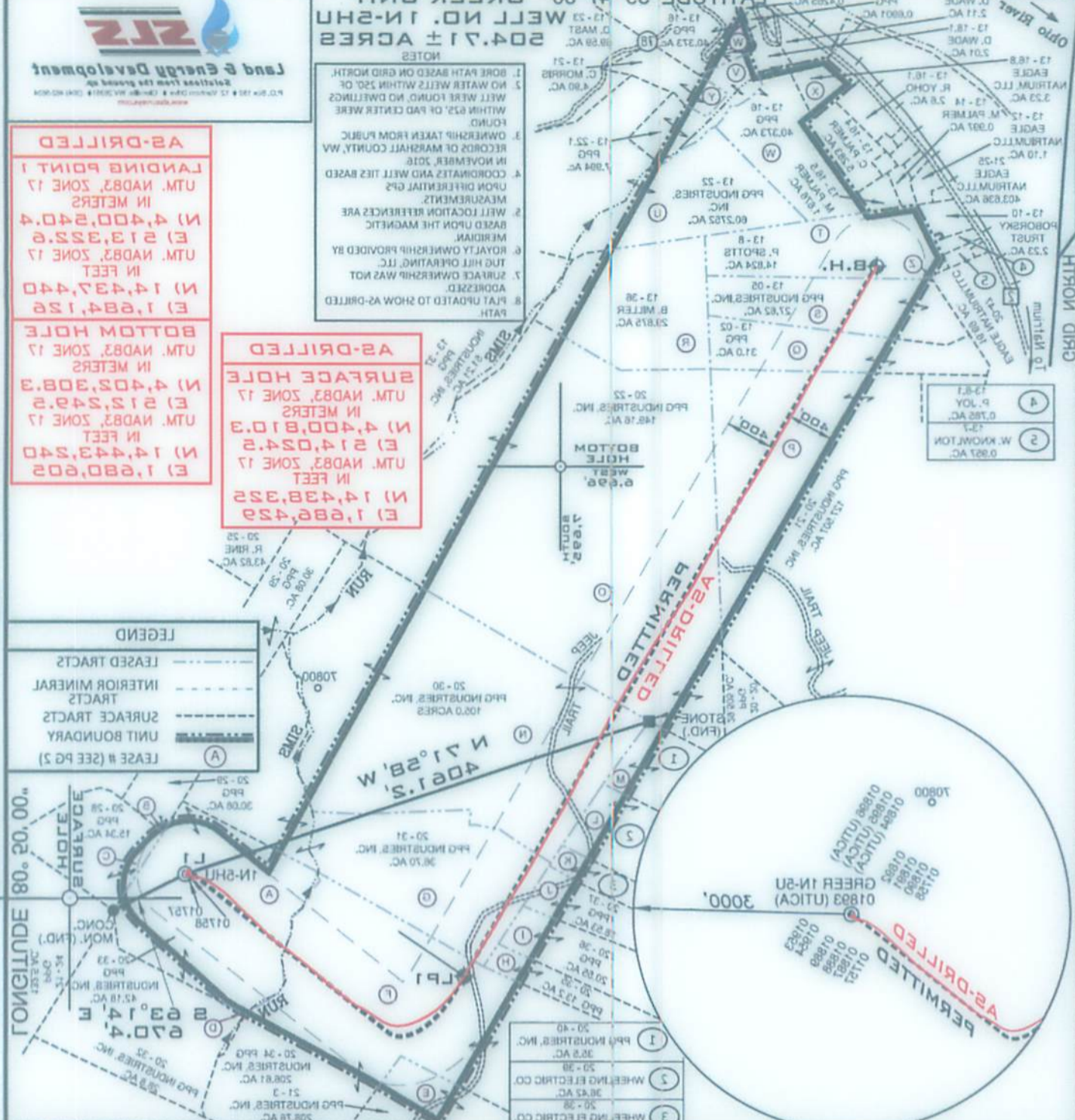
WV DEP
 OFFICE OF OIL & GAS
 601 57TH STREET, SE
 CHARLESTON, WV 25304

STATE OF WEST VIRGINIA
 REGISTERED PROFESSIONAL SURVEYOR
 No. 677
 GREGORY A. SMITH
 LICENSED
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 SEAL

FILE NUMBER 8837
 DRAWING NUMBER 8837ADG1N5HU.dwg
 SCALE 1" = 1200'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
 GRADE GPS

DATE: JULY 17, 2018
 OPERATORS WELL NO. GREER 1N-5HU (AS-DRILLED)





I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 877
 SCALE 1" = 1200'
 DRAWING NUMBER 8837ADG1NSHU.dwg
 FILE NUMBER 8837

GRADE GPS
 SUBMETER MAPPING
 PROVEN SOURCE
 OF ELEVATION
 MINIMUM DEGREE OF ACCURACY 1/2500
 P.S. 877

DATE: JULY 17, 2018
 OPERATORS WELL NO. GREER IN-SHU (AS-DRIILLED)
 API WELL NO. 01893
 STATE COUNTY PERMIT 47-051-01893

TARGET FORMATION POINT PLEASANT
 ESTIMATED DEPTH TVD: 10,883' TMD: 18,765'
 PERMIT CLEAN OUT & REPLUG PLUG & ABANDON
 DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM
 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313
 WELL OPERATOR TUG HILL OPERATING, LLC
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

SURFACE OWNER PPG INDUSTRIES, INC.
 QUADRANGLE POWHATAN POINT 7.5'
 DISTRICT FRANKLIN
 COUNTY MARSHALL
 LOCATION ELEVATION 1251' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER (UNDEFINED)
 (IF GAS) PRODUCTION STORAGE DEEP X SHALLOW
 WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL

COUNTY NAME ACREAGE LEASE ACREAGE
 42.18 504.71
 SEE ATTACHED PG 2 THROUGH 8 LEASE NUMBER



AS-DRIILLED
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 1,684,126
 (N) 14,437,440
 UTM. NAD83, ZONE 17
 IN FEET
 (E) 5,508,602
 (N) 47,437,440
BOTTOM HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 1,686,429
 (N) 14,438,322
SURFACE HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 5,512,242
 (N) 47,402,813
AS-DRIILLED
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 1,686,429
 (N) 14,438,322

AS-DRIILLED
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 1,686,429
 (N) 14,438,322
SURFACE HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 5,512,242
 (N) 47,402,813
AS-DRIILLED
 UTM. NAD83, ZONE 17
 IN METERS
 (E) 1,686,429
 (N) 14,438,322

NOTES
 1. BORE PATH BASED ON GRID NORTH.
 2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN NOVEMBER, 2016.
 4. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 5. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 6. ROYALTY OWNERSHIP PROVIDED BY TUG HILL OPERATING, LLC.
 7. SURFACE OWNERSHIP WAS NOT ADRESSED.
 8. PLAN UPDATED TO SHOW AS-DRIILLED PATH.

LEGEND
 LEASED TRACTS
 INTERIOR MINERAL TRACTS
 SURFACE TRACTS
 UNIT BOUNDARY
 LEASE # (SEE PG 2)

LONGITUDE 80.20.00
 L.P.1
 L.P.2
 L.P.3
 L.P.4
 L.P.5
 L.P.6
 L.P.7
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 L.P.92
 L.P.93
 L.P.94
 L.P.95
 L.P.96
 L.P.97
 L.P.98
 L.P.99
 L.P.100

15' 05.1
 80.20.00
 39° 47' 30" LATITUDE
 204.71 ± ACRES
 WELL NO. IN-SHU
 GREEN UNIT

**GREER WELL NO. 1N-5HU
WELL PLAT LEASE INFORMATION**

Lease No	Tag	Parcel	Oil & Gas Royalty Owner	Book	Pg
10*14316	A	5-20-33	ANDREW GERST	791	645
10*16358	A	5-20-33	Anne Marie Kramer	903	648
10*15763	A	5-20-33	Bonnie J. Selders	904	34
10*15761	A	5-20-33	Cameron Cemetery Association	903	642
10*14402	A	5-20-33	CAROL F WILSON AND RICHARD WILSON	860	446
10*14362	A	5-20-33	CAROLYN STARKEY	827	226
10*14331	A	5-20-33	CHRISTINA JEAN RIOUX	796	70
10*14400	A	5-20-33	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
10*14419	A	5-20-33	CROSSROAD CHILD AND FAMILY SERVICES, INC., AN INDIANA NON-PROFIT CORPORATION	887	105
10*16356	A	5-20-33	Daryl S. Bucknor	904	31
10*15762	A	5-20-33	Dawn Petrovich	904	4
10*14333	A	5-20-33	DEAN ROTHENBUHLER	796	42
10*16357	A	5-20-33	Deanna M. Campbell, a single woman	904	1
10*14355	A	5-20-33	DEWAYNE STARKEY	815	228
10*15760	A	5-20-33	Diedre Winger	903	645
10*14404	A	5-20-33	DON FORGRAVES	862	426
10*14356	A	5-20-33	FREDRIC RICHTER & BETTY RICHTER	822	270
10*15734	A	5-20-33	Genevieve L Long, a widow	904	13
10*14317	A	5-20-33	HAROLD BLACHLY	791	643
10*14410	A	5-20-33	HENRY T LONG	867	385
10*14321	A	5-20-33	HERBERT BLACHLY	792	102
10*14401	A	5-20-33	IMELDA J SCURLOCK	860	443
10*14388	A	5-20-33	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST OF SALEM TOWNSHIP, MONROE COUNTY, OHIO, AN OHIO NON-PROFIT CORPORATION	849	513
10*14319	A	5-20-33	JACK J. PFALZGRAF	792	118
10*14409	A	5-20-33	JAMES C LONG AND PATTI LONG	864	326
10*15764	A	5-20-33	James E. Bucknor	904	28
10*16355	A	5-20-33	James P. Long and Linda L. Long	904	10
10*14312	A	5-20-33	JAMIE LU BENSON	790	531
10*14398	A	5-20-33	JAN KAFFENBERGER	860	434
10*15765	A	5-20-33	John A. Bucknor	904	16
10*14387	A	5-20-33	JOHN F LONG AND PAM LONG	849	542
10*15766	A	5-20-33	John J. Pozenel, a widower	904	7
10*14405	A	5-20-33	JOHN WHITE	862	423
10*14377	A	5-20-33	JOSEPH A LONG	849	519
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10*14413	A	5-20-33	JUANITA SANDIFER	872	206
10*14416	A	5-20-33	KATHERINE ANN WILLIAMS COTHRAN	879	1
10*14394	A	5-20-33	LESLIE F BUCKNOR	862	419
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10*14332	A	5-20-33	MICHAEL EDWARD BARTH	796	68
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10*14314	A	5-20-33	RALPH BLACHLY	790	529
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10*16230	A	5-20-33	TH Exploration, LLC	900	134
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10*14329	A	5-20-33	TONDA ROTHENBUHLER	796	40
10*14372	A	5-20-33	UNITED CHURCH HOMES INC., AN OHIO NON-PROFIT CORPORATION	846	408
10*14381	A	5-20-33	WILLIAM LONG	792	95
10*14395	A	5-20-33	WILLIAM V BUCKNOR	862	421
10*14325	B	5-20-29	ELIZABETH ANN STRAUSBAUGH	792	104
10*14326	B	5-20-29	JANET LEA BLANKENSHIP	792	580
10*14310	B	5-20-29	JEAN C. THOMAS	781	614
10*14308	B	5-20-29	MARY E. BASSETT	779	492
10*14418	B	5-20-29	PPG INDUSTRIES, INC.	878	610
10*14309	B	5-20-29	ROBERT B. THOMAS	779	484
10*14324	B	5-20-29	RUTH E. BASSETT MEADOWS	792	100
10*14307	B	5-20-29	SALLY CYNTHIA HOPKINS	777	572

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ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
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DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON WV, 25313

form wv6

**GREER WELL NO. 1N-SHU
WELL PLAT LEASE INFORMATION**

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10*14325	C	5-20-28	ELIZABETH ANN STRAUSBAUGH	792	104
10*14326	C	5-20-28	JANET LEA BLANKENSHIP	792	580
10*14310	C	5-20-28	JEAN C. THOMAS	781	614
10*14308	C	5-20-28	MARY E. BASSETT	779	492
10*14418	C	5-20-28	PPG INDUSTRIES, INC.	878	610
10*14309	C	5-20-28	ROBERT B. THOMAS	779	484
10*14324	C	5-20-28	RUTH E. BASSETT MEADOWS	792	100
10*14307	C	5-20-28	SALLY CYNTHIA HOPKINS	777	572
10*14418	D	5-20-32	PPG INDUSTRIES, INC.	878	610
10*14418	E	5-21-3	PPG INDUSTRIES, INC.	878	610
10*14418	F	5-20-34	PPG INDUSTRIES, INC.	878	610
10*14418	G	5-20-31	PPG INDUSTRIES, INC.	878	610
10*14418	H	5-20-35	PPG INDUSTRIES, INC.	878	610
10*14418	I	5-20-36	PPG INDUSTRIES, INC.	878	610
10*14418	J	5-20-37	PPG INDUSTRIES, INC.	878	610
10*14703	K	5-20-38	WHEELING POWER COMPANY	786	303
10*14703	L	5-20-39	WHEELING POWER COMPANY	786	303
10*14418	M	5-20-40	PPG INDUSTRIES, INC.	878	610
10*14360	N	5-20-30	ALLEN D. MASON	827	276
10*14343	N	5-20-30	BARBARA METZNER	799	459
10*14352	N	5-20-30	BRIAN K. MARMIE & CAROL L. MARMIE	805	76
10*14366	N	5-20-30	CARRIE E METZGER FKA CARRIE ELLIZABETH CHAMBERS, A MARRIED WOMAN DEALING IN HER SOLE AND SEPARATE PROPERTY	833	527
10*14358	N	5-20-30	CHRIS H. STEVENSON	827	282
10*14367	N	5-20-30	CHRISTINA CHAMBERS	836	123
10*14363	N	5-20-30	CHRISTINA I. CHILCOTE	827	525
10*14311	N	5-20-30	COLLIN A. WILLISON III	789	577
10*14365	N	5-20-30	DAN J. SWOVELAND	827	523
10*14414	N	5-20-30	DAVID C WHITE, ESQ., SPECIAL COMMISSIONER, ON BEHALF OF D.W. CHESS, OR HIS HEIRS, UNKNOWN HEIRS, SUCCESSORS, ASSIGNS, DEVISEES, OR DISTRIBUTEES	872	217
10*14364	N	5-20-30	DAWN M. LAEMMIE	827	521
10*14342	N	5-20-30	FLORENCE L. MYERS	799	457
10*14348	N	5-20-30	GEORGEANN TIPPY	803	152
10*14349	N	5-20-30	HOWARD A. BROWN	805	98
10*14339	N	5-20-30	JOANN FRAZIER	799	59
10*14323	N	5-20-30	JODY ELIZONDO	792	93
10*14357	N	5-20-30	JORLENE POST	827	280
10*14340	N	5-20-30	JOSEPH CHAMBERS	799	450
10*14353	N	5-20-30	KARI B. MARMIE	809	515
10*14346	N	5-20-30	LAURA GLASSNER	800	406
10*14330	N	5-20-30	LETITIA TEMPLE	799	465
10*14338	N	5-20-30	LOIS JEAN MYERS	797	189
10*14359	N	5-20-30	LUCYBELLE WELDON	827	278
10*14344	N	5-20-30	LYNNETTE L. KUGLER	799	461
10*14336	N	5-20-30	MARSHA L. SCHON	797	198
10*14335	N	5-20-30	MARY C. JOSEPH	797	196
10*14351	N	5-20-30	NORA WEBB	805	78
10*14418	N	5-20-30	PPG INDUSTRIES, INC.	878	610
10*14350	N	5-20-30	RAE JEAN NAMETH	805	80
10*14341	N	5-20-30	ROBERT MARMIE	799	455
10*14361	N	5-20-30	RODNEY K. CHAMBERS	827	271
10*14345	N	5-20-30	SHARON D. GREEN	799	463
10*14334	N	5-20-30	STANLEY RICHMOND	796	62
10*14347	N	5-20-30	TERRY I. CHAMBERS	800	404
10*14354	N	5-20-30	TRAVIS D. MARMIE	808	491
10*14337	N	5-20-30	WILLIAM M. DOYLE	797	187
10*14418	O	5-20-22	PPG INDUSTRIES, INC.	878	610
10*14922	O	5-20-22	ROGER R WEESE, SPECIAL COMMISSIONER, ON BEHALF OF EMMA W. STANDIFORD, MARY WILSON CRAMER, JANE TAYLOR, MAY BRIDENBECKER, ROSEBERRY L. WILSON, ANNIE WILSON, BEATRICE WILSON KERLIN, COURTNEY T. WILSON, GUY WILSON, CALLIE WILSON GATES, JAMES C. WILSON, H.L. WILSON, FRED WILSON, RAY WILSON, WILLIS WILSON, ELIZABETH WILSON BALDWIN, GERTRUDE B. SMITH, ALVIN BALDWIN, I.M. GARRETT, LUCILLE B. WENTZ, C.C. BALDWIN, SARAH WILSON COLEMAN, JOHN WILSON, LYDIA WILSON SHAW, AND MARTHA WILSON, OR THEIR HEIRS, UNKNOWN HEIRS, SUCCESSORS, ASSIGNS, DEVISEES, OR DISTRIBUTEES	836	488
10*14418	P	5-20-21	PPG INDUSTRIES, INC.	878	610
10*14418	Q	5-13-2	PPG INDUSTRIES, INC.	878	610
10*47051.324.2	R	5-13-36	JACK L MASON	737	229
10*14370	R	5-13-36	JAMES SLAWINSKI	842	370
10*47051.324.1	R	5-13-36	MARILYN SUE BUMER	739	413
10*14418	R	5-13-36	PPG INDUSTRIES, INC.	878	610
10*15756	R	5-13-36	STEVEN A BOHRER ET UX	904	20
10*14369	R	5-13-36	TIMOTHY B MILLER	844	87
10*14418	S	5-13-5	PPG INDUSTRIES, INC.	878	610
10*14663	T	5-13-8	PAUL F. SPOTTS	779	482

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CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON WV, 25313

**GREER WELL NO. 1N-5HU
WELL PLAT LEASE INFORMATION**

Lease No	Tag	Parcel	Oil & Gas Royalty Owner	Book	Pg
10*14316	U	5-13-22	ANDREW GERST	791	645
10*16358	U	5-13-22	Anne Marie Kramer	903	648
10*15763	U	5-13-22	Bonnie J. Selders	904	34
10*15761	U	5-13-22	Cameron Cemetery Association	903	642
10*14402	U	5-13-22	CAROL F WILSON AND RICHARD WILSON	860	446
10*14362	U	5-13-22	CAROLYN STARKEY	827	226
10*14331	U	5-13-22	CHRISTINA JEAN RIOUX	796	70
10*14400	U	5-13-22	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
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10*16356	U	5-13-22	Daryl S. Bucknor, married	904	31
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10*16357	U	5-13-22	Deanna M. Campbell, a single woman	904	1
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10*15734	U	5-13-22	Genevieve L. Long, a widow	904	13
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10*15765	U	5-13-22	John A. Bucknor	904	16
10*14387	U	5-13-22	JOHN F LONG AND PAM LONG	849	542
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10*14377	U	5-13-22	JOSEPH A LONG	849	519
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10*14313	U	5-13-22	TERRI JEAN GODDARD	790	585
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10*14412	V	5-13-22.1	THE VILLAGE NETWORK, F/K/A BOYS VILLAGE OF SMITHVILLE, OHIO, AN OHIO CORPORATION	872	203
10*14371	V	5-13-22.1	THOMAS F LONG AND JENNIFER LONG	842	398
10*14411	V	5-13-22.1	THOMAS WHITE, ESQ., SPECIAL COMMISSIONER, ON BEHALF OF JOHN EDWARD HARRIS, JR., MARION LUCILLE ROBINSON, REVEREND FATHER J.F. BEAVER, ELOISE CARTER, EVALENA SCHAEFFER, ELEANOR SHUTT, HELEN MARTIN, MARGERY MOORE, CHARLES LONG, TILLIE ISCHY, LELIA TAYLOR, GERTRUDE URPMAN, IRENE STEWART, HELENA M. WILSON, EDNA SCHRAMM, TOM YOHO, RETTA YOHO, AND DAISY WARD, OR THEIR HEIRS, UNKNOWN HEIRS, SUCCESSORS, ASSIGNS, DEVISEES, OR DISTRIBUTEES	870	34
10*14329	V	5-13-22.1	TONDA ROTHENBUHLER	796	40
10*14372	V	5-13-22.1	UNITED CHURCH HOMES INC., AN OHIO NON-PROFIT CORPORATION	846	408
10*14395	V	5-13-22.1	WILLIAM V BUCKNOR	862	421
10*14418	W	5-13-16	PPG INDUSTRIES, INC.	878	610
10*14418	X	5-13-16.8	PPG INDUSTRIES, INC.	878	610
10*14316	Y	5-13-21	ANDREW GERST	791	645
10*16358	Y	5-13-21	Anne Marie Kramer	903	648
10*15763	Y	5-13-21	Bonnie J. Selders	904	34
10*15761	Y	5-13-21	Cameron Cemetery Association	903	642
10*14402	Y	5-13-21	CAROL F WILSON AND RICHARD WILSON	860	446
10*14362	Y	5-13-21	CAROLYN STARKEY	827	226
10*14331	Y	5-13-21	CHRISTINA JEAN RIOUX	796	70
10*14400	Y	5-13-21	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
10*14419	Y	5-13-21	CROSSROAD CHILD AND FAMILY SERVICES, INC., AN INDIANA NON-PROFIT CORPORATION	887	105
10*16356	Y	5-13-21	Daryl S. Bucknor, married	904	31
10*15762	Y	5-13-21	Dawn Petrovich	904	4
10*14333	Y	5-13-21	DEAN ROTHENBUHLER	796	42
10*16357	Y	5-13-21	Deanna M. Campbell, a single woman	904	1
10*14355	Y	5-13-21	DEWAYNE STARKEY	815	228
10*15760	Y	5-13-21	Diedre Winger	903	645
10*14404	Y	5-13-21	DON FORGRAVES	862	426

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WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH TX, 76107

DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM
ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON WV, 25313

**GREER WELL NO. 1 N-5H
WELL PLAT LEASE INFORMATION**

Lease No	Tag	Parcel	Oil & Gas Royalty Owner	Book	Pg
10*14356	Y	5-13-21	FREDRIC RICHTER & BETTY RICHTER	822	270
10*15734	Y	5-13-21	Genevieve L. Long, a widow	904	13
10*14317	Y	5-13-21	HAROLD BLACHLY	791	643
10*14410	Y	5-13-21	HENRY T LONG	867	385
10*14321	Y	5-13-21	HERBERT BLACHLY	792	102
10*14401	Y	5-13-21	IMELDA J SCURLOCK	860	443
10*14388	Y	5-13-21	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST OF SALEM TOWNSHIP, MONROE COUNTY, OHIO, AN OHIO NON-PROFIT CORPORATION	849	513
10*14319	Y	5-13-21	JACK J. PFALZGRAF	792	118
10*14409	Y	5-13-21	JAMES C LONG AND PATTI LONG	864	326
10*15764	Y	5-13-21	James E. Bucknor	904	28
10*16355	Y	5-13-21	James P. Long and Linda L. Long	904	10
10*14312	Y	5-13-21	JAMIE LU BENSON	790	531
10*14398	Y	5-13-21	IAN KAFFENBERGER	860	434
10*15765	Y	5-13-21	John A. Bucknor	904	16
10*14387	Y	5-13-21	JOHN F LONG AND PAM LONG	849	542
10*15766	Y	5-13-21	John J. Pozenel, a widower	904	7
10*14405	Y	5-13-21	JOHN WHITE	862	423
10*14377	Y	5-13-21	JOSEPH A LONG	849	519
10*14368	Y	5-13-21	JOSEPH LONG	836	106
10*14413	Y	5-13-21	JUANITA SANDIFER	872	206
10*14416	Y	5-13-21	KATHERINE ANN WILLIAMS COTHRAN	879	1
10*14394	Y	5-13-21	LESLIE F BUCKNOR	862	419
10*14322	Y	5-13-21	LOIS KAY MORFORD	792	110
10*14408	Y	5-13-21	LORNA M LONG MORGAN	864	323
10*14315	Y	5-13-21	MARGARET ROSS	790	527
10*14318	Y	5-13-21	MARTHA BLACHLY-CROSS	792	112
10*14332	Y	5-13-21	MICHAEL EDWARD BARTH	796	68
10*14328	Y	5-13-21	RAE ELLEN STUART	796	38
10*14314	Y	5-13-21	RALPH BLACHLY	790	529
10*14399	Y	5-13-21	RITA ANN DOEBERT AND RONALD DOEBERT	860	437
10*14327	Y	5-13-21	ROBERT D. OKEY	792	646
10*14320	Y	5-13-21	SANDRA CHEYNEY	792	91
10*14403	Y	5-13-21	SUE WHITE	862	429
10*14313	Y	5-13-21	TERRI JEAN GODDARD	790	585
10*16230	Y	5-13-21	TH Exploration, LLC	900	134
10*14412	Y	5-13-21	THE VILLAGE NETWORK, F/K/A BOYS VILLAGE OF SMITHVILLE, OHIO, AN OHIO CORPORATION	872	203
10*14371	Y	5-13-21	THOMAS F LONG AND JENNIFER LONG	842	398
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10*14372	Y	5-13-21	UNITED CHURCH HOMES INC., AN OHIO NON-PROFIT CORPORATION	846	408
10*14395	Y	5-13-21	WILLIAM V BUCKNOR	862	421
10*14418	Z	5-20-47	PPG INDUSTRIES, INC.	878	610

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