

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

API 47 - 051 - 01892 County Marshall District Franklin  
Quad Powhatan Point 7.5' Pad Name Greer Field/Pool Name \_\_\_\_\_  
Farm name PPG Industries, Inc. Well Number 1N-9HM  
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 4,400,808.2 Easting 514,021.3  
Landing Point of Curve Northing 4,401,065.6 Easting 514,112.8  
Bottom Hole Northing 4,402,980.3 Easting 513,006.7

Elevation (ft) 1,251' 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)  
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 1/23/2017 Date drilling commenced 5/1/2017 Date drilling ceased 7/28/2017  
Date completion activities began 12/12/2017 Date completion activities ceased 3/4/2018  
Verbal plugging (Y/N) n/a 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 70' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 1600' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft Sewickley 785' TVD, Pittsburgh 879' TVD Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

**Reviewed**  
*Jim Wilbur*  
8/23/18

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Reviewed by: \_\_\_\_\_

API 47-051 - 01892 Farm name PPG Industries, Inc. Well number 1N-9HM

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	YES
Surface	17 1/2	13 3/8	943	NEW	54.5#	N/A	YES
Coal	17 1/2	13 3/8	943	NEW	54.5#	N/A	YES
Intermediate 1	12 1/4	9 5/8	2619	NEW	36#	N/A	YES
Intermediate 2							
Intermediate 3							
Production	8 3/4	5 1/2	14,463	NEW	20#	N/A	YES
Tubing		2 3/8	6568	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	562	15.6	1.19	669	0	8
Surface	A	1050	15.6	1.19	1250	0	8
Coal	A	1050	15.6	1.19	1250	0	8
Intermediate 1	A	880	15.6	1.19	1047	0	8
Intermediate 2							
Intermediate 3							
Production	A	2895	14.5	1.17	3387	0	8
Tubing							

Drillers TD (ft) 14,490 Loggers TD (ft) \_\_\_\_\_

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

Plug back procedure n/a

Kick off depth (ft) 5749

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 \_\_\_\_\_

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**Greer 1N-9HM  
Perforation Record**

Stage	Date Perforated	Bottom Perf (ft)	Top Perf (ft)	Number of Perfs	Formation
1	12/12/2017	14,365	14,317	2	Marcellus
2	12/13/2017	14,135	14,004	48	Marcellus
3	12/17/2017	13,960	13,829	48	Marcellus
4	12/18/2017	13,785	13,654	48	Marcellus
5	12/22/2017	13,610	13,479	48	Marcellus
6	12/24/2017	13,435	13,304	48	Marcellus
7	12/29/2017	13,260	13,129	48	Marcellus
8	1/1/2018	13,085	12,954	48	Marcellus
9	1/3/2018	12,910	12,779	48	Marcellus
10	1/5/2018	12,735	12,604	48	Marcellus
11	1/8/2018	12,560	12,429	48	Marcellus
12	1/9/2018	12,385	12,254	48	Marcellus
13	1/11/2018	12,210	12,079	48	Marcellus
14	1/12/2018	12,035	11,904	48	Marcellus
15	1/12/2018	11,860	11,729	48	Marcellus
16	1/17/2018	11,685	11,554	48	Marcellus
17	1/19/2018	11,510	11,379	48	Marcellus
18	1/20/2018	11,335	11,204	48	Marcellus
19	1/27/2018	11,160	11,029	48	Marcellus
20	1/28/2018	10,985	10,854	48	Marcellus
21	1/30/2018	10,810	10,679	48	Marcellus
22	2/1/2018	10,635	10,504	48	Marcellus
23	2/2/2018	10,460	10,329	48	Marcellus
24	2/4/2018	10,285	10,154	48	Marcellus
25	2/6/2018	10,110	9,979	48	Marcellus
26	2/7/2018	9,935	9,804	48	Marcellus
27	2/10/2018	9,760	9,629	48	Marcellus
28	2/11/2018	9,585	9,454	48	Marcellus
29	2/13/2018	9,410	9,279	48	Marcellus
30	2/15/2018	9,235	9,104	48	Marcellus
31	2/16/2018	9,060	8,929	48	Marcellus
32	2/17/2018	8,885	8,754	48	Marcellus
33	2/18/2018	8,710	8,579	48	Marcellus
34	2/20/2018	8,535	8,404	48	Marcellus
35	2/21/2018	8,360	8,229	48	Marcellus
36	2/22/2018	8,185	8,054	48	Marcellus
37	2/24/2018	8,010	7,879	48	Marcellus
38	2/25/2018	7,835	7,704	48	Marcellus
39	2/26/2018	7,660	7,529	48	Marcellus
40	2/27/2018	7,485	7,354	48	Marcellus
41	2/28/2018	7,310	7,179	48	Marcellus
42	3/1/2018	7,135	7,004	48	Marcellus
43	3/3/2018	6,960	6,829	48	Marcellus
44	3/3/2018	6,785	6,654	48	Marcellus

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**Stimulation Summary  
Geer 1N-9HM**

Stage	Avg. Pump Rate (BPM)	Avg. Treating Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant Total (lbs)	Water Total (bbls)	N2 Volume (scf)
1	84.2	8,302	6,191	2,542	344,840	7,681	0
2	89	7,955	5,651	3,138	347,201	7,829	0
3	88.7	8,190	4,723	3,129	347,379	7,847	0
4	89.5	7,714	5,223	3,173	451,341	8,685	0
5	89.3	7,805	4,756	3,188	449,999	8,494	0
6	80.6	7,660	5,348	3,224	453,033	9,671	0
7	86.2	7,583	4,791	3,164	450,472	8,683	0
8	88.2	7,997	6,030	3,203	450,510	8,552	0
9	89.8	7,974	5,419	3,215	450,212	8,721	0
10	88.4	7,444	4,923	3,176	450,806	8,688	0
11	88.5	7,857	4,782	3,538	450,782	8,855	0
12	84.9	7,844	5,475	3,562	451,674	8,663	0
13	84.8	7,581	4,672	3,205	448,646	8,751	0
14	85.9	7,661	4,804	3,201	450,823	8,582	0
15	89.7	7,570	5,415	4,133	451,614	8,685	0
16	85.2	7,411	5,346	3,551	451,569	8,640	0
17	84	7,304	5,834	3,135	450,238	8,538	0
18	86.1	7,497	5,419	4,215	372,144	7,826	0
19	86.3	7,446	5,733	4,252	396,567	7,994	0
20	88.7	7,489	6,088	3,670	450,001	8,825	0
21	83.4	7,613	5,538	2,861	449,866	9,448	0
22	89.6	7,603	5,554	3,947	449,605	8,731	0
23	84.7	7,259	5,446	3,160	451,347	8,629	0
24	89.7	7,479	4,924	3,463	452,033	8,580	0
25	85.9	7,490	5,621	4,257	317,451	7,836	0
26	89.2	7,455	4,985	4,160	346,851	7,868	0
27	83.6	7,028	5,485	3,164	450,200	9,442	0
28	87.1	6,950	5,515	3,683	450,371	8,505	0
29	88.2	7,142	5,188	3,794	449,922	8,284	0
30	88.4	6,952	5,241	3,542	450,662	8,430	0
31	88.4	7,058	5,463	3,783	450,495	8,424	0
32	84.6	7,548	6,078	3,165	450,076	9,327	0
33	89	7,038	5,512	3,793	447,805	8,595	0
34	87.8	6,880	5,622	3,978	449,899	8,405	0
35	88.1	6,838	5,412	3,843	449,171	8,484	0
36	88.8	6,829	5,072	3,664	449,534	8,421	0
37	88.7	6,826	4,499	3,768	450,110	8,413	0

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Stimulation Summary  
Geer 1N-9HM

38	89.1	7,104	6,172	3,774	449,386	8,433	0
39	89.5	7,078	5,996	4,001	451,021	8,517	0
40	88.8	6,804	5,479	3,454	429,977	8,169	0
41	89.3	6,883	5,806	3,779	412,142	8,071	0
42	90	6,694	5,487	4,523	451,248	8,166	0
43	87.3	6,629	5,902	3,854	450,796	8,630	0
44	89.7	6,241	4,983	3,735	427,320	8,208	0

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**Greer 1N-9HM**  
**Lithology/Formation 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)
Maxton	1857	1929	1857	1929	Sandstone
Big Lime	1929	2038	1929	2039	Limestone
Big Injun	2038	2346	2039	2348	Sandstone
Weir	2346	2536	2348	2539	Sandstone
Berea	2536	2854	2539	2858	Sandstone
Gordon	2854	2956	2858	2961	Sandstone
Fifty Foot	2956	3529	2961	3537	Sandstone
Speechley	3529	4865	3537	4882	Sandstone
Benson	4865	5234	4882	5254	Sandstone
Alexander	5234	5854	5254	5884	Siltstone
Rhinestreet	5854	6216	5884	6302	Black shale
Middlesex	6216	6302	6302	6437	Black shale
Geneseo/Burkett	6302	6343	6437	6511	Black shale
Tully	6343	6363	6511	6555	Limestone
Hamilton	6363	6370	6555	6570	Grey shale
Marcellus	6370	-	6570	-	Black shale

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

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Job Start Date:	3/6/2018
Job End Date:	3/6/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01892-00-00
Operator Name:	Tug Hill Operating, LLC
Well Name and Number:	Greer 1N-9HM
Latitude:	39.75710000
Longitude:	-80.83628000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,415
Total Base Water Volume (gal):	16,100,771
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
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	87.25378	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.28629	

SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant					
				Listed Below			
OILPERM A	Halliburton	Non-ionic Surfactant					
				Listed Below			
MC MX 2-2822	Halliburton	Scale Inhibitor					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
				Listed Below			
SP BREAKER	Halliburton	Breaker					
				Listed Below			
FR-76	Halliburton	Friction Reducer					
				Listed Below			
SCALECHEK LP-70	Halliburton	Scale Inhibitor					

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				Listed Below			
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				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	12.39798	
			Inorganic salt	Proprietary	30.00000	0.03205	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.03205	
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.03205	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Hydrochloric acid	7647-01-0	15.00000	0.02774	
			Glutaraldehyde	111-30-8	30.00000	0.00775	
			Guar gum	9000-30-0	100.00000	0.00710	
			Ethylene glycol	107-21-1	60.00000	0.00505	
			Methanol	67-56-1	60.00000	0.00457	
			Amines, polyethylenepoly-, ethoxylated, phosphonomethylated, sodium salts	70900-16-2	30.00000	0.00412	
	RECEIVED Office of Oil and Gas  SEP 10 2018  WV Department of Environmental Protection		Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00129	
			Telmer	Proprietary	10.00000	0.00084	

			Sodium chloride	7647-14-5	5.00000	0.00069	
			Ethanol	64-17-5	60.00000	0.00068	
			Oxyalkylated phenolic resin	Proprietary	30.00000	0.00028	
			Sodium persulfate	7775-27-1	100.00000	0.00024	
			Heavy aromatic petroleum naphtha	64742-94-5	30.00000	0.00021	
			Fatty acids, tall oil	Proprietary	30.00000	0.00021	
			Modified thiourea polymer	Proprietary	30.00000	0.00021	
			Ethoxylated alcohols	Proprietary	30.00000	0.00021	
			Sodium polyacrylate	9003-04-7	1.00000	0.00008	
			Olefins	Proprietary	5.00000	0.00008	
			Propargyl alcohol	107-19-7	10.00000	0.00007	
			Naphthalene	91-20-3	5.00000	0.00003	
			Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	5.00000	0.00003	
			Phosphoric acid	7664-38-2	0.10000	0.00003	
			Formaldehyde	50-00-0	0.09000	0.00001	
			1,2,4 Trimethylbenzene	95-63-6	1.00000	0.00001	
			Acrylic acid	79-10-7	0.01000	0.00000	
			Sodium sulfate	7757-82-6	0.10000	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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LATITUDE 39° 47' 30" GREER LEASE  
WELL NO. 1N-9HM  
458.315± ACRES



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www.slsenergy.com

LEGEND

- LEASED TRACTS
- INTERIOR MINERAL TRACTS
- SURFACE TRACTS
- HARD LEASE LINE
- (A) LEASE # (SEE PG 2)

<b>AS-DRILLED</b>	
<b>SURFACE HOLE</b>	UTM. NAD83, ZONE 17 IN METERS
<b>N) 4,400,808.2</b>	
<b>E) 514,021.3</b>	
UTM. NAD83, ZONE 17	IN FEET
<b>N) 14,438,318</b>	
<b>E) 1,686,418</b>	
<b>LANDING POINT 1</b>	UTM. NAD83, ZONE 17 IN METERS
<b>N) 4,401,065.6</b>	
<b>E) 514,112.8</b>	
UTM. NAD83, ZONE 17	IN FEET
<b>N) 14,439,163</b>	
<b>E) 1,686,719</b>	
<b>BOTTOM HOLE</b>	UTM. NAD83, ZONE 17 IN METERS
<b>N) 4,402,980.3</b>	
<b>E) 513,006.7</b>	
UTM. NAD83, ZONE 17	IN FEET
<b>N) 14,445,445</b>	
<b>E) 1,683,089</b>	

- NOTES
- BORE PATH BASED ON GRID NORTH.
  - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
  - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN JULY, 2016.
  - COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
  - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
  - ROYALTY OWNERSHIP PROVIDED BY TUG HILL OPERATING, LLC.
  - SURFACE OWNERSHIP WAS NOT ADDRESSED.
  - PLAT UPDATED TO SHOW AS-DRILLED PATH.



FILE NUMBER **8837**

DRAWING NUMBER **8837ADG1N9HM.dwg**

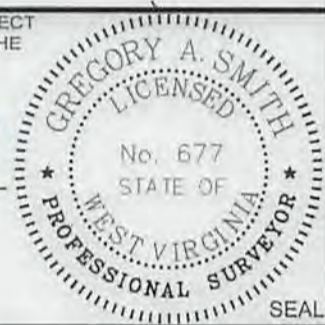
SCALE **1" = 1200'**

MINIMUM DEGREE OF ACCURACY **1/2500**

PROVEN SOURCE OF ELEVATION **SUBMETER MAPPING**  
**GRADE GPS**

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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 677  
*Gregory A. Smith*



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

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

DATE: JULY 17, 2018

OPERATORS WELL NO. GREER 1N-9HM (AS-DRILLED)

API WELL NO. 47-051-01892

STATE COUNTY PERMIT

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 4

SURFACE OWNER PPG INDUSTRIES, INC. ACREAGE 42.18

OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC., ET AL LEASE ACREAGE 458.315

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_  
PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,316' TMD:14,490'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

12.633'-00.05'08" LONGITUDE N



**AS-DRILLED SURFACE HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (N) 4,400,808.2  
 (E) 214,021.3

**LANDING POINT 1**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (N) 4,401,065.8  
 (E) 213,006.7

**BOTTOM HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
 (N) 4,402,880.3  
 (E) 213,006.7

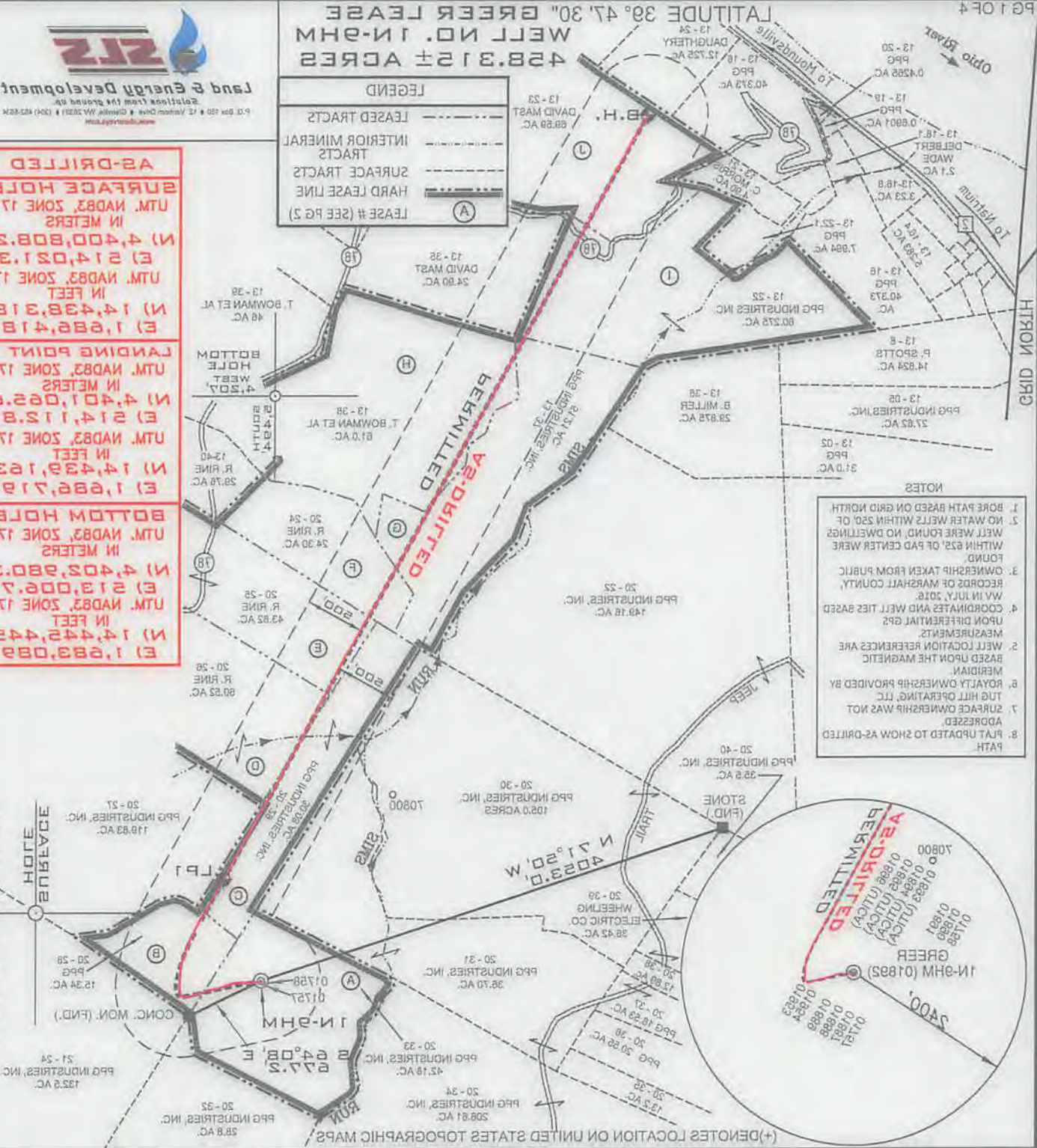


WELL NO. 1N-9HM  
 458.315 ± ACRES  
 30° 47' 30" GREER LEASE

LEGEND

(A)	LEASE # (SEE PG 2)
---	HARD LEASE LINE
---	SURFACE TRACTS
---	INTERIOR MINERAL TRACTS
---	LEASED TRACTS

LONGITUDE 80° 20' 00"



NOTES

1. BORE PATH BASED ON GRID NORTH
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN JULY, 2018.
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 ADDRESSED.
8. PLAT UPDATED TO SHOW AS-DRILLED PATH.



*Gregory A. Smith*  
 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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION



FILE NUMBER	8837
DRAWING NUMBER	8837ADG1N9HM.dwg
SCALE	1" = 1200'
MINIMUM DEGREE OF ACCURACY	1/2500
PROVEN SOURCE OF ELEVATION	SUBMETER MAPPING
	GRADE GPS

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

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

TARGET FORMATION MARCELLUS  
 ESTIMATED DEPTH TVD 6,316', TMD:14,490'  
 PLUG & ABANDON CLEAN OUT & REPLUG

PERFORATE NEW FORMATION \_\_\_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER PPG INDUSTRIES, INC., ET AL  
 LEASE ACREAGE 458.315  
 SURFACE OWNER PPG INDUSTRIES, INC.  
 ACREAGE 45.18

QUADRANGLE POWHATAN POINT 7.5', LEASE NUMBER \_\_\_\_\_ SEE ATTACHED PG 2 THROUGH 4  
 DISTRICT FRANKLIN COUNTY MARSHALL  
 LOCATION ELEVATION 1251' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER (UNDEFINED)  
 STATE COUNTY PERMIT 47-051-01892

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

APR WELL NO. \_\_\_\_\_  
 OPERATORS WELL NO. GREER 1N-9HM (AS-DRILLED)  
 DATE: JULY 17, 2018



**GREER WELL NO. 1N-9HM  
WELL PLAT LEASE INFORMATION**

Lease Name or No.	Tag	Parcel	GRANTOR, LESSOR, ECT.	DEED BOOK/PG	
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*14400	A	5-20-33	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
10*14419	A	5-20-33	CROSSROAD CHILD AND FAMILY SERVICES	887	105
10*14404	A	5-20-33	DON FORGRAVES	862	426
10*14410	A	5-20-33	HENRY T LONG	867	385
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	849	513
10*14409	A	5-20-33	JAMES C LONG AND PATTI LONG	864	326
10*14398	A	5-20-33	JAN KAFFENBERGER	860	434
10*14387	A	5-20-33	JOHN F LONG AND PAM LONG	849	542
10*14405	A	5-20-33	JOHN WHITE	862	423
10*14377	A	5-20-33	JOSEPH A LONG	849	519
10*14368	A	5-20-33	JOSEPH LONG	836	106
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
10*14408	A	5-20-33	LORNA M LONG MORGAN	864	323
10*14399	A	5-20-33	RITA ANN DOEBERT AND RONALD DOEBERT	860	437
10*14403	A	5-20-33	SUE WHITE	862	429
10*14412	A	5-20-33	THE VILLAGE NETWORK	872	203
10*14371	A	5-20-33	THOMAS F LONG AND JENNIFER LONG	842	398
10*14411	A	5-20-33	THOMAS WHITE, ESQ., SPECIAL COMMISSIONER	870	34
10*14372	A	5-20-33	UNITED CHURCH HOMES INC	846	408
10*14395	A	5-20-33	WILLIAM V BUCKNOR	862	421
10*14316	A	5-20-33	ANDREW GERST	791	645
10*14331	A	5-20-33	CHRISTINA JEAN RIOUX	796	70
10*14333	A	5-20-33	DEAN ROTHENBUHLER	796	42
10*14355	A	5-20-33	DEWAYNE STARKEY	815	228
10*14356	A	5-20-33	FREDRIC RICHTER & BETTY RICHTER	822	270
10*14317	A	5-20-33	HAROLD BLACHLY	791	643
10*14321	A	5-20-33	HERBERT BLACHLY	792	102
10*14319	A	5-20-33	JACK J. PFALZGRAF	792	118
10*14312	A	5-20-33	JAMIE LU BENSON	790	531
10*14322	A	5-20-33	LOIS KAY MORFORD	792	110
10*14315	A	5-20-33	MARGARET ROSS	790	527
10*14318	A	5-20-33	MARTHA BLACHLY-CROSS	792	112
10*14332	A	5-20-33	MICHAEL EDWARD BARTH	796	68
10*14300	A	5-20-33	PPG INDUSTRIES, INC.	725	123
10*14328	A	5-20-33	RAE ELLEN STUART	796	38
10*14314	A	5-20-33	RALPH BLACHLY	790	529
10*14327	A	5-20-33	ROBERT D. OKEY	792	646
10*14320	A	5-20-33	SANDRA CHEYNEY	792	91
10*14313	A	5-20-33	TERRI JEAN GODDARD	790	585
10*14329	A	5-20-33	TONDA ROTHENBUHLER	796	40
10*16355	A	5-20-33	JAMES P. LONG AND LINDA LONG	904	10
10*15766	A	5-20-33	JOHN J. POZENEL	904	7
10*15762	A	5-20-33	DAWN PETROVICH	904	4
10*16357	A	5-20-33	DEANNA M. CAMPBELL	904	1
10*15760	A	5-20-33	DIEDRE WINGER	903	645
10*16358	A	5-20-33	ANNE MARIE KRAMER	903	648
10*15734	A	5-20-33	GENEVIEVE L. LONG	904	13
10*15761	A	5-20-33	CAMERON CEMETERY ASSOCIATION	903	642
10*16230	A	5-20-33	TH Exploration, LLC	900	134
10*15763	A	5-20-33	BONNIE J. SELDERS	904	34
10*16356	A	5-20-33	DARYL S. BUCKNOR	904	31
10*15765	A	5-20-33	JOHN A. BUCKNOR	904	16
10*15764	A	5-20-33	JAMES E. BUCKNOR	904	28
10*14381	A	5-20-33	WILLIAM LONG	792	95
10*14325	B	5-20-28	ELIZABETH ANN STRAUSBAUGH	792	104
10*14326	B	5-20-28	JANET LEA BLANKENSHIP	792	580
10*14310	B	5-20-28	JEAN C. THOMAS	781	614
10*14308	B	5-20-28	MARY E. BASSETT	779	492
10*14300	B	5-20-28	PPG INDUSTRIES, INC.	725	123
10*14309	B	5-20-28	ROBERT B. THOMAS	779	484
10*14324	B	5-20-28	RUTH E. BASSETT MEADOWS	792	100
10*14307	B	5-20-28	SALLY CYNTHIA HOPKINS	777	572
10*14325	C	5-20-29	ELIZABETH ANN STRAUSBAUGH	792	104
10*14326	C	5-20-29	JANET LEA BLANKENSHIP	792	580

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 PLAT LEASE INFORMATION  
GREER WELL NO. 1-N-34M

Deed Book\PG	GRANTOR, LESSOR, ECT.	Parcel	Tag	Lease Name or No.
280	JANET LEA BLANKENSHIP	2-50-28	C	10*14326
104	ELIZABETH ANN STRAUSBAUGH	2-50-28	C	10*14325
272	RUTH E. BASSETT MEADOWS	2-50-28	B	10*14324
100	ROBERT B. THOMAS	2-50-28	B	10*14309
484	PPG INDUSTRIES, INC.	2-50-28	B	10*14300
492	MARY E. BASSETT	2-50-28	B	10*14308
614	JEAN C. THOMAS	2-50-28	B	10*14310
280	JANET LEA BLANKENSHIP	2-50-28	B	10*14326
104	ELIZABETH ANN STRAUSBAUGH	2-50-28	B	10*14325
92	WILLIAM LONG	2-50-33	A	10*14381
28	JAMES E. BUCKNOR	2-50-33	A	10*12764
16	JOHN A. BUCKNOR	2-50-33	A	10*12765
91	DARYL S. BUCKNOR	2-50-33	A	10*12356
34	BONNIE J. SELDERS	2-50-33	A	10*12763
134	TH Exploration, LLC	2-50-33	A	10*12530
642	CAMERON CEMETERY ASSOCIATION	2-50-33	A	10*12761
13	GENEVEVE J. LONG	2-50-33	A	10*12734
648	ANNE MARIE KRAMER	2-50-33	A	10*12328
642	DIEDRE WINGER	2-50-33	A	10*12760
1	DEANNA M. CAMPBELL	2-50-33	A	10*12327
4	DAWN PETROVICH	2-50-33	A	10*12762
7	JOHN J. POZENEL	2-50-33	A	10*12766
10	JAMES P. LONG AND LINDA LONG	2-50-33	A	10*12322
40	TONDA ROTHENBUHLER	2-50-33	A	10*14329
282	TERRI LEAN GODDARD	2-50-33	A	10*14313
91	SANDRA CHENEY	2-50-33	A	10*14320
272	ROBERT D. OKEY	2-50-33	A	10*14327
259	RALPH BLACHLY	2-50-33	A	10*14314
38	RAE ELLEN STUART	2-50-33	A	10*14328
123	PPG INDUSTRIES, INC.	2-50-33	A	10*14300
88	MICHAEL EDWARD BARTH	2-50-33	A	10*14332
112	MARTHA BLACHLY-CROSS	2-50-33	A	10*14318
252	MARGARET ROSS	2-50-33	A	10*14312
110	LOIS KAY MORFORD	2-50-33	A	10*14325
231	JAMIE LU BENSON	2-50-33	A	10*14312
118	JACK J. PALZGRAF	2-50-33	A	10*14319
102	HERBERT BLACHLY	2-50-33	A	10*14321
643	HAROLD BLACHLY	2-50-33	A	10*14317
270	FREDRIC RICHTER & BETTY RICHTER	2-50-33	A	10*14326
228	DEWAYNE STARKEY	2-50-33	A	10*14322
42	DEAN ROTHENBUHLER	2-50-33	A	10*14333
70	CHRISTINA JEAN RIOUX	2-50-33	A	10*14331
642	ANDREW GERST	2-50-33	A	10*14316
421	WILLIAM V. BUCKNOR	2-50-33	A	10*14322
408	UNITED CHURCH HOMES INC	2-50-33	A	10*14327
34	THOMAS WHITE, ESQ., SPECIAL COMMISSIONER	2-50-33	A	10*14411
298	THOMAS F. LONG AND JENNIFER LONG	2-50-33	A	10*14371
203	THE VILLAGE NETWORK	2-50-33	A	10*14412
429	SUE WHITE	2-50-33	A	10*14403
437	RITA ANN DOBERT AND RONALD DOBERT	2-50-33	A	10*14399
252	LORNA M. LONG MORGAN	2-50-33	A	10*14408
419	LESUE F. BUCKNOR	2-50-33	A	10*14394
1	KATHERINE ANN WILLIAMS COTHMAN	2-50-33	A	10*14416
206	JUANITA SANDIFER	2-50-33	A	10*14413
106	JOSEPH LONG	2-50-33	A	10*14368
219	JOSEPH A. LONG	2-50-33	A	10*14377
423	JOHN WHITE	2-50-33	A	10*14402
242	JOHN F. LONG AND PAM LONG	2-50-33	A	10*14387
434	JAN KAFFENBERGER	2-50-33	A	10*14398
226	JAMES C. LONG AND PATTI LONG	2-50-33	A	10*14409
213	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST	2-50-33	A	10*14388
443	IMELDA J. SCURLOCK	2-50-33	A	10*14401
382	HENRY T. LONG	2-50-33	A	10*14410
426	DON FORGRAVES	2-50-33	A	10*14404
102	CROSSROAD CHILD AND FAMILY SERVICES	2-50-33	A	10*14419
440	COLEEN SLAOLE AND FRANKLIN SLAOLE	2-50-33	A	10*14400
226	CAROLYN STARKEY	2-50-33	A	10*14362
446	CAROL F. WILSON AND RICHARD WILSON	2-50-33	A	10*14402

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



**GREER WELL NO. 1N-9HM  
WELL PLAT LEASE INFORMATION**

Lease Name or No.	Tag	Parcel	GRANTOR, LESSOR, ECT.	DEED BOOK/PG	
10*14310	C	5-20-29	JEAN C. THOMAS	781	614
10*14308	C	5-20-29	MARY E. BASSETT	779	492
10*14300	C	5-20-29	PPG INDUSTRIES, INC.	725	123
10*14309	C	5-20-29	ROBERT B. THOMAS	779	484
10*14324	C	5-20-29	RUTH E. BASSETT MEADOWS	792	100
10*14307	C	5-20-29	SALLY CYNTHIA HOPKINS	777	572
10*14616	D	5-20-26	ROBERT E RINE AND DONNA M RINE	708	250
10*14685	E	5-20-25	ROBERT E. RINE AND DONNA M. RINE	708	253
10*14615	F	5-20-24	ROBERT E RINE	708	251
10*14316	G	5-13-37	ANDREW GERST	849	528
10*14402	G	5-13-37	CAROL F WILSON AND RICHARD WILSON	860	446
10*14362	G	5-13-37	CAROLYN STARKEY	849	554
10*14331	G	5-13-37	CHRISTINA JEAN RIOUX	849	556
10*14400	G	5-13-37	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
10*14419	G	5-13-37	CROSSROAD CHILD AND FAMILY SERVICES	887	105
10*14333	G	5-13-37	DEAN ROTHENBUHLER	860	430
10*14355	G	5-13-37	DEWAYNE STARKEY	849	560
10*14404	G	5-13-37	DON FORGRAVES	862	426
10*14373	G	5-13-37	FREDRIC RICHTER AND BETTY RICHTER	846	411
10*14317	G	5-13-37	HAROLD BLACHLY	849	538
10*14410	G	5-13-37	HENRY T LONG	867	385
10*14321	G	5-13-37	HERBERT BLACHLY	849	536
10*14401	G	5-13-37	IMELDA J SCURLOCK	860	443
10*14388	G	5-13-37	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST	849	513
10*14386	G	5-13-37	JACK J PFALZGRAF	849	540
10*14409	G	5-13-37	JAMES C LONG AND PATTI LONG	864	326
10*14312	G	5-13-37	JAMIE LU BENSON	849	526
10*14398	G	5-13-37	JAN KAFFENBERGER	860	434
10*14387	G	5-13-37	JOHN F LONG AND PAM LONG	849	542
10*14405	G	5-13-37	JOHN WHITE	862	423
10*14377	G	5-13-37	JOSEPH A LONG	849	519
10*14393	G	5-13-37	JOSEPH B LONG	854	585
10*14413	G	5-13-37	JUANITA SANDIFER	872	206
10*14416	G	5-13-37	KATHERINE ANN WILLIAMS COTHRAN	879	1
10*14394	G	5-13-37	LESLIE F BUCKNOR	860	422
10*14408	G	5-13-37	LORNA M LONG MORGAN	864	323
10*14315	G	5-13-37	MARGARET ROSS	846	402
10*14374	G	5-13-37	MARTHA BLATCHLY-CROSS	846	400
10*14332	G	5-13-37	MICHAEL EDWARD BARTH	849	524
10*14328	G	5-13-37	RAE ELLEN STUART	849	558
10*14314	G	5-13-37	RALPH BLACHLY	849	534
10*14399	G	5-13-37	RITA ANN DOEBERT AND RONALD DOEBERT	860	437
10*14415	G	5-13-37	ROBERT D OKEY	872	621
10*14320	G	5-13-37	SANDRA CHEYNEY	879	4
10*14403	G	5-13-37	SUE WHITE	862	429
10*14313	G	5-13-37	TERRI JEAN GODDARD	846	404
10*14412	G	5-13-37	THE VILLAGE NETWORK	872	203
10*14382	G	5-13-37	THOMAS LONG AND JENNIFER LONG	849	532
10*14411	G	5-13-37	THOMAS WHITE, ESQ., SPECIAL COMMISSIONER	870	34
10*14329	G	5-13-37	TONDA ROTHENBUHLER	860	432
10*14372	G	5-13-37	UNITED CHURCH HOMES INC	846	408
10*14381	G	5-13-37	WILLIAM LONG	849	530
10*14395	G	5-13-37	WILLIAM V BUCKNOR	860	424
10*14300	G	5-13-37	PPG INDUSTRIES, INC.	725	123
10*14322	G	5-13-37	LOIS KAY MORFORD	792	110
10*16355	G	5-13-37	JAMES P. LONG AND LINDA LONG	904	10
10*15766	G	5-13-37	JOHN J. POZENEL	904	7
10*15762	G	5-13-37	DAWN PETROVICH	904	4
10*16357	G	5-13-37	DEANNA M. CAMPBELL	904	1
10*15760	G	5-13-37	DIEDRE WINGER	903	645
10*16358	G	5-13-37	ANNE MARIE KRAMER	903	648
10*15734	G	5-13-37	GENEVIEVE L LONG	904	13
10*15761	G	5-13-37	CAMERON CEMETERY ASSOCIATION	903	642
10*16230	G	5-13-37	TH Exploration, LLC	900	134
10*15763	G	5-13-37	BONNIE J. SELDERS	904	34
10*16356	G	5-13-37	DARYLS. BUCKNOR	904	31
10*15765	G	5-13-37	JOHN A. BUCKNOR	904	16
10*15764	G	5-13-37	JAMES E. BUCKNOR	904	28
10*14526	H	5-13-38	THOMAS WILLIAM BOWMAN	761	432

WELL OPERATOR TUG HILL OPERATING, LLC  
 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

WELL PLAT LEASE INFORMATION  
GREER WELL NO. 11-9HM

Lease Name or No.	Tag	Parcel	GRANTOR, LESSOR, ECT.	DEED BOOK/Pg
10*14256	H	2-13-38	THOMAS WILLIAM BOWMAN	761 432
10*12764	G	2-13-37	JAMES E. BUCKNOR	904 28
10*12765	G	2-13-37	JOHN A. BUCKNOR	904 16
10*16326	G	2-13-37	DARYL S. BUCKNOR	904 31
10*12763	G	2-13-37	BONNIE J. SELDERS	904 34
10*16230	G	2-13-37	TH Exploration, LLC	900 134
10*12761	G	2-13-37	CAMERON CEMETERY ASSOCIATION	903 642
10*12734	G	2-13-37	GENEVIEVE L. LONG	904 13
10*16328	G	2-13-37	ANNE MARIE KRAMER	903 648
10*12760	G	2-13-37	DIEDRE WINGER	903 642
10*16327	G	2-13-37	DEANNA M. CAMPBELL	904 1
10*12762	G	2-13-37	DAWN PETROVICH	904 4
10*12766	G	2-13-37	JOHN J. POZENEL	904 7
10*16325	G	2-13-37	JAMES P. LONG AND LINDA LONG	904 10
10*14322	G	2-13-37	LOIS KAY MORFORD	792 110
10*14300	G	2-13-37	PPG INDUSTRIES, INC.	722 123
10*14395	G	2-13-37	WILLIAM V BUCKNOR	860 424
10*14381	G	2-13-37	WILLIAM LONG	849 230
10*14372	G	2-13-37	UNITED CHURCH HOMES INC	846 408
10*14329	G	2-13-37	TONDA ROTHENBUHLER	860 432
10*14411	G	2-13-37	THOMAS WHITE, ESG., SPECIAL COMMISSIONER	870 34
10*14382	G	2-13-37	THOMAS LONG AND JENNIFER LONG	849 232
10*14412	G	2-13-37	THE VILLAGE NETWORK	872 203
10*14313	G	2-13-37	TERRI JEAN GODDARD	846 404
10*14403	G	2-13-37	SUE WHITE	862 429
10*14320	G	2-13-37	SANDRA CHENEY	879 4
10*14412	G	2-13-37	ROBERT D OKEY	872 621
10*14399	G	2-13-37	RITA ANI DOBERT AND RONALD DOBERT	860 437
10*14314	G	2-13-37	RALPH BLACHLY	849 234
10*14328	G	2-13-37	RAE ELLEN STUART	849 228
10*14332	G	2-13-37	MICHAEL EDWARD BARTH	849 224
10*14374	G	2-13-37	MARTHA BLACHLY-CROSS	846 400
10*14312	G	2-13-37	MARGARET ROSS	846 402
10*14408	G	2-13-37	LORNA M LONG MORGAN	864 323
10*14394	G	2-13-37	LESLIE F BUCKNOR	860 422
10*14416	G	2-13-37	KATHERINE ANN WILLIAMS COTHRAN	879 1
10*14413	G	2-13-37	LUANITA SANDIFER	872 206
10*14393	G	2-13-37	JOSEPH B LONG	824 282
10*14377	G	2-13-37	JOSEPH A LONG	849 219
10*14402	G	2-13-37	JOHN WHITE	862 423
10*14387	G	2-13-37	JOHN F LONG AND PAM LONG	849 242
10*14398	G	2-13-37	JAN KAFFENBERGER	860 434
10*14312	G	2-13-37	JAMIE LU BENSON	849 226
10*14409	G	2-13-37	JAMES C LONG AND PATTI LONG	864 326
10*14386	G	2-13-37	JACK J PALZGRAF	849 240
10*14388	G	2-13-37	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST	849 213
10*14401	G	2-13-37	IMELDA J SCURLOCK	860 443
10*14321	G	2-13-37	HERBERT BLACHLY	849 236
10*14410	G	2-13-37	HENRY T LONG	862 382
10*14317	G	2-13-37	HAROLD BLACHLY	849 238
10*14373	G	2-13-37	FREDRIC RICHTER AND BETTY RICHTER	846 411
10*14404	G	2-13-37	DON FORGARVES	862 426
10*14322	G	2-13-37	DEWAYNE STARKEY	849 260
10*14333	G	2-13-37	DEAN ROTHENBUHLER	860 430
10*14419	G	2-13-37	GROSSROAD CHILD AND FAMILY SERVICES	887 102
10*14400	G	2-13-37	COLEEN SLAEGE AND FRANKLIN SLAEGE	860 440
10*14331	G	2-13-37	CHRISTINA LEAN RHOIX	849 226
10*14362	G	2-13-37	CAROLYN STARKEY	849 224
10*14402	G	2-13-37	CAROL F WILSON AND RICHARD WILSON	860 446
10*14316	G	2-13-37	ANDREW GERST	849 228
10*14612	F	2-20-24	ROBERT E RINE	708 221
10*14682	E	2-20-22	ROBERT E RINE AND DONNA M RINE	708 223
10*14616	D	2-20-26	ROBERT E RINE AND DONNA M RINE	708 220
10*14307	C	2-20-29	SALLY CYNTHIA HOPKINS	777 222
10*14324	C	2-20-29	RUTH E BASSETT MEADOWS	792 100
10*14309	C	2-20-29	ROBERT B. THOMAS	779 484
10*14300	C	2-20-29	PPG INDUSTRIES, INC.	722 123
10*14308	C	2-20-29	MARY E. BASSETT	779 492
10*14310	C	2-20-29	JEAN C. THOMAS	781 614

WELL OPERATOR TUG HILL OPERATING, LLC  
 1320 SOUTH UNIVERSITY DRIVE, SUITE 500  
 FORT WORTH, TX 76102  
 DESIGNATED AGENT DIANNA STAMPER  
 CT CORPORATION SYSTEM  
 Address 5400 D BIG TYLER ROAD  
 CHARLESTON, WV 25313

**GREER WELL NO. 1N-9HM  
WELL PLAT LEASE INFORMATION**

Lease Name or No.	Tag	Parcel	GRANTOR, LESSOR, ECT.	DEED BOOK/PG	
10*14527	H	5-13-38	VICTORIA BOWMAN	761	434
10*14402	I	5-13-22	CAROL F WILSON AND RICHARD WILSON	860	446
10*14362	I	5-13-22	CAROLYN STARKEY	827	226
10*14400	I	5-13-22	COLEEN SLAGLE AND FRANKLIN SLAGLE	860	440
10*14419	I	5-13-22	CROSSROAD CHILD AND FAMILY SERVICES	887	105
10*14404	I	5-13-22	DON FORGRAVES	862	426
10*14410	I	5-13-22	HENRY T LONG	867	385
10*14401	I	5-13-22	IMELDA J SCURLOCK	860	443
10*14388	I	5-13-22	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST	849	513
10*14409	I	5-13-22	JAMES C LONG AND PATTI LONG	864	326
10*14398	I	5-13-22	JAN KAFFENBERGER	860	434
10*14387	I	5-13-22	JOHN F LONG AND PAM LONG	849	542
10*14405	I	5-13-22	JOHN WHITE	862	423
10*14377	I	5-13-22	JOSEPH A LONG	849	519
10*14368	I	5-13-22	JOSEPH LONG	836	106
10*14413	I	5-13-22	JUANITA SANDIFER	872	206
10*14416	I	5-13-22	KATHERINE ANN WILLIAMS COTHRAN	879	1
10*14394	I	5-13-22	LESLIE F BUCKNOR	862	419
10*14408	I	5-13-22	LORNA M LONG MORGAN	864	323
10*14399	I	5-13-22	RITA ANN DOEBERT AND RONALD DOEBERT	860	437
10*14403	I	5-13-22	SUE WHITE	862	429
10*14412	I	5-13-22	THE VILLAGE NETWORK	872	203
10*14371	I	5-13-22	THOMAS F LONG AND JENNIFER LONG	842	398
10*14411	I	5-13-22	THOMAS WHITE, ESQ., SPECIAL COMMISSIONER	870	34
10*14372	I	5-13-22	UNITED CHURCH HOMES INC	846	408
10*14395	I	5-13-22	WILLIAM V BUCKNOR	862	421
10*14316	I	5-13-22	ANDREW GERST	791	645
10*14331	I	5-13-22	CHRISTINA JEAN RIOUX	796	70
10*14333	I	5-13-22	DEAN ROTHENBUHLER	796	42
10*14355	I	5-13-22	DEWAYNE STARKEY	815	228
10*14356	I	5-13-22	FREDRIC RICHTER & BETTY RICHTER	822	270
10*14317	I	5-13-22	HAROLD BLACHLY	791	643
10*14321	I	5-13-22	HERBERT BLACHLY	792	102
10*14319	I	5-13-22	JACK J. PFALZGRAF	792	118
10*14312	I	5-13-22	JAMIE LU BENSON	790	531
10*14322	I	5-13-22	LOIS KAY MORFORD	792	110
10*14315	I	5-13-22	MARGARET ROSS	790	527
10*14318	I	5-13-22	MARTHA BLACHLY-CROSS	792	112
10*14332	I	5-13-22	MICHAEL EDWARD BARTH	796	68
10*14300	I	5-13-22	PPG INDUSTRIES, INC.	725	123
10*14328	I	5-13-22	RAE ELLEN STUART	796	38
10*14314	I	5-13-22	RALPH BLACHLY	790	529
10*14327	I	5-13-22	ROBERT D. OKEY	792	646
10*14320	I	5-13-22	SANDRA CHEYNEY	792	91
10*14313	I	5-13-22	TERRI JEAN GODDARD	790	585
10*14329	I	5-13-22	TONDA ROTHENBUHLER	796	40
10*16355	I	5-13-22	JAMES P. LONG AND LINDA LONG	904	10
10*15766	I	5-13-22	JOHN J. POZENEL	904	7
10*15762	I	5-13-22	DAWN PETROVICH	904	4
10*16357	I	5-13-22	DEANNA M. CAMPBELL	904	1
10*15760	I	5-13-22	DIEDRE WINGER	903	645
10*16358	I	5-13-22	ANNE MARIE KRAMER	903	648
10*15734	I	5-13-22	GENEVIEVE L. LONG	904	13
10*15761	I	5-13-22	CAMERON CEMETERY ASSOCIATION	903	642
10*15763	I	5-13-22	TH Exploration, LLC	904	34
10*16230	I	5-13-22	BONNIE J. SELDERS	900	134
10*16356	I	5-13-22	DARYL S. BUCKNOR	904	31
10*15765	I	5-13-22	JOHN A. BUCKNOR	904	16
10*15764	I	5-13-22	JAMES E. BUCKNOR	904	28
10*14700	J	5-13-23	DAVID J. MAST AND MIRIAM A. MAST	708	239
10*14701	J	5-13-23	ROSEITA THORNTON	885	600

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 PLAT LEASE INFORMATION  
GREER WELL NO. 1-N-5M

Deed Book/Pg	Lessee Name or No.	Tag	Parcel	GRANTOR, LESSOR, ECT.
882	10*14701	1	2-13-23	ROSEITA THORNTON
239	10*14700	1	2-13-23	DAVID J. MAST AND MIRIAM A. MAST
28	10*15764	1	2-13-23	JAMES E. BUCKNOR
16	10*15765	1	2-13-23	JOHN A. BUCKNOR
31	10*16326	1	2-13-23	DARYL S. BUCKNOR
134	10*16230	1	2-13-23	BONNIE J. SELDERS
34	10*15763	1	2-13-23	TH Exploration, LLC
642	10*15761	1	2-13-23	CAMERON CEMETERY ASSOCIATION
13	10*15734	1	2-13-23	GENEVIEVE J. LONG
648	10*16328	1	2-13-23	ANNE MARIE KRAMER
642	10*15760	1	2-13-23	DIEDRE WINGER
904	10*16327	1	2-13-23	DEANNA M. CAMPBELL
4	10*15762	1	2-13-23	DAWN PETROVICH
904	10*15766	1	2-13-23	JOHN J. POZENEJL
10	10*16325	1	2-13-23	JAMES P. LONG AND LINDA LONG
40	10*14329	1	2-13-23	TONDA ROTHEBUEHLER
282	10*14313	1	2-13-23	TERRI LEAN GODDARD
91	10*14320	1	2-13-23	SANDRA CHEYNEY
646	10*14327	1	2-13-23	ROBERT D. OKY
259	10*14314	1	2-13-23	RALPH BLACHLY
38	10*14328	1	2-13-23	RAE ELLEN STUART
123	10*14300	1	2-13-23	PPG INDUSTRIES, INC.
68	10*14332	1	2-13-23	MICHAEL EDWARD BARTH
112	10*14318	1	2-13-23	MARTHA BLACHLY-CROSS
227	10*14312	1	2-13-23	MARGARET ROSS
110	10*14322	1	2-13-23	LOIS KAY MORFORD
290	10*14312	1	2-13-23	JAMIE LU BENSON
118	10*14319	1	2-13-23	JACK J. PEALZGRAF
102	10*14321	1	2-13-23	HERBERT BLACHLY
643	10*14317	1	2-13-23	HAROLD BLACHLY
270	10*14326	1	2-13-23	FREDRIC RICHTER & BETTY RICHTER
228	10*14322	1	2-13-23	DEWAYNE STARKEY
42	10*14333	1	2-13-23	DEAN ROTHEBUEHLER
70	10*14331	1	2-13-23	CHRISTINA JEAN RHOX
642	10*14316	1	2-13-23	ANDREW GERST
421	10*14322	1	2-13-23	WILLIAM V BUCKNOR
408	10*14322	1	2-13-23	UNITED CHURCH HOMES INC
34	10*14411	1	2-13-23	THOMAS WHITE, ESC., SPECIAL COMMISSIONER
298	10*14327	1	2-13-23	THOMAS F. LONG AND JENNIFER LONG
203	10*14412	1	2-13-23	THE VILLAGE NETWORK
429	10*14403	1	2-13-23	SUE WHITE
437	10*14329	1	2-13-23	RITA ANN DOBERT AND RONALD DOBERT
252	10*14408	1	2-13-23	LORNA M LONG MORGAN
419	10*14394	1	2-13-23	LESLIE F BUCKNOR
1	10*14416	1	2-13-23	KATHERINE ANN WILLIAMS COHRAN
206	10*14413	1	2-13-23	JUANITA SANDIFER
106	10*14368	1	2-13-23	JOSEPH LONG
219	10*14327	1	2-13-23	JOSEPH A LONG
423	10*14402	1	2-13-23	JOHN WHITE
242	10*14387	1	2-13-23	JOHN F LONG AND PAM LONG
434	10*14398	1	2-13-23	JAN KAFFENBERGER
860	10*14409	1	2-13-23	JAMES C LONG AND PATTI LONG
213	10*14388	1	2-13-23	IMMANUEL CHURCH OF THE UNITED CHURCH OF CHRIST
443	10*14401	1	2-13-23	IMELDA J SCURLOCK
382	10*14410	1	2-13-23	HENRY T LONG
426	10*14404	1	2-13-23	DON FORGAVES
102	10*14419	1	2-13-23	GROSSROAD CHILD AND FAMILY SERVICES
440	10*14400	1	2-13-23	COLEEN SLAEGE AND FRANKLIN SLAEGE
226	10*14362	1	2-13-23	CAROLYN STARKEY
446	10*14402	1	2-13-23	CAROL F WILSON AND RICHARD WILSON
434	10*14227	H	2-13-28	VICTORIA BOWMAN

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