

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

API 47-051-02047 County Marshall District Union
Quad Moundsville Pad Name Casterly Rock Field/Pool Name Point Pleasant
Farm name Leslie B. & Lori D. Schaber Well Number Casterly Rock-1UH
Operator (as registered with the OOG) American Petroleum Partners Operating, LLC
Address 4600 J. Barry Court Suite 310 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 4424081.9543 (m) Easting 528577.6228 (m)
Landing Point of Curve Northing 4424157.8833 (m) Easting 528382.5289 (m)
Bottom Hole Northing 4426270.7635 (m) Easting 526904.1219 (m)

Elevation (ft) 1312.1 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)
Air - foam & 5% KCL (surface hole = air and clean water)
Mud - SOB

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Date permit issued 09/18/2018 Date drilling commenced 6/26/2019 Conduc: 10/7/18; Top Hole 12/09/18 Date drilling ceased 05/08/2019
Date completion activities began 6/26/2019 Date completion activities ceased 8/29/2019
Verbal plugging (Y/N) No Date permission granted na Granted by na

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

Freshwater depth(s) ft 130', 825' Open mine(s) (Y/N) depths No
Salt water depth(s) ft Did not encounter Void(s) encountered (Y/N) depths None
Coal depth(s) ft 750', 836' Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) Y

Reviewed by:
JJ 7/29/2021

API 47- 051 - 02047 Farm name Leslie B. & Lori D. Schaber Well number Casterly Rock-1UH

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"	40'	New	LS 81.3#	none	Yes
Surface	24"	20"	1210'	New	N80,J-55 94-133#	none	Yes
Coal	17.5"	13 3/8"	2479'	New	J-55 54.5#3#	none	Yes
Intermediate 1	12.38"	9 5/8"	9835'	New	P110 43.5#	none	Yes
Intermediate 2							
Intermediate 3							
Production	8.75"	5 1/2"	20357'	New	HCP-110 23#	none	Yes
Tubing	5.14"	2 7/8"		New	J-55 6.5#		
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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1					0'	8 hrs
Surface	Class A	2142 sx	15.6	1.18		0'	8 hrs
Coal	Class A	2563 sx	15.6	1.18		0'	8 hrs
Intermediate 1	Stage 1 Lead TXI Tail Class A	Lead 1095 sx Tail 1627s	12.0 / 15.2	1.18 / 1.26		0'	8 hrs
Intermediate 2	Stage 2 Lead TXI Tail Class A	Lead 1375sx Tail 392	12.0 / 15.2	1.18 / 1.26		0'	8 hrs
Intermediate 3							
Production	Class H	Lead 1588sxs/Tail 3165	16.2 / 16.4	1.01/1.07		3174'	
Tubing							

Drillers TD (ft) 20384' MD Loggers TD (ft) 20334'
 Deepest formation penetrated Point Pleasant Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 9,935'

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 Conductor - none
 Surface / Freshwater String - Bowstring every 3 joints to 100' from surface
 1st Intermediate - Bowstring every 3 joints to 100' from surface
 2nd Intermediate - Bowstring every 3 joints to 100' from surface
 Production - Rigid Bow Spring every joint from KOP to TOC

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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 Fluid Tracers

API 47- 051 - 02047 Farm name Leslie B. & Lori D. Schaber Well number Casterly Rock-1UH

PRODUCING FORMATION(S) DEPTHS
POINT PLEASANT 11,286' TVD 11,819' MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 7205 psi Bottom Hole ^x _____ psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 5409 mcfpd Oil 0 bpd NGL 0 bpd Water 522 bpd
GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	NAME TVD	TVD	MD	MD	
	0		0		
					See additional sheet

Please insert additional pages as applicable.

Drilling Contractor Halliburton/Sperry Drilling
Address 121 Champion Way, Suite 200 City Canonsburg State PA Zip 15317

Logging Company Computerized Mudlogging Service, LLC
Address 324 Deer Creek Drive City Struthers State OH Zip 44471

Cementing Company Schlumberger
Address 4600 J. Barry Court, Suite 201 City Canonsburg State PA Zip 15317

Stimulating Company FTS International Services, LLC
Address 777 Main St., SE 2900 City Fort Worth State TX Zip 76102

Please insert additional pages as applicable.

Completed by Braulio Silva Telephone 1-724-338-8629
Signature _____ Title VP - Drilling Date 11/25/2019

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

PERFORATION RECORD

Well #	Stage #	Date	Top TD	Bottom TD	Number of Perforations	Formation
1UH	1	6/29/2019	20179	20149	6	Utica
1UH	2	7/3/2019	20001	20128	6	Utica
1UH	3	7/4/2019	19853	19980	6	Utica
1UH	4	7/5/2019	19704	19831	6	Utica
1UH	5	7/7/2019	19556	19683	6	Utica
1UH	6	7/8/2019	19407	19534	6	Utica
1UH	7	7/9/2019	19259	19386	6	Utica
1UH	8	7/11/2019	19110	19237	6	Utica
1UH	9	7/12/2019	18962	19089	6	Utica
1UH	10	7/13/2019	18813	18941	6	Utica
1UH	11	7/14/2019	18665	18792	6	Utica
1UH	12	7/16/2019	18516	18644	6	Utica
1UH	13	7/17/2019	18368	18495	6	Utica
1UH	14	7/18/2019	18219	18347	6	Utica
1UH	15	7/18/2019	18071	18198	6	Utica
1UH	16	7/19/2019	17922	18050	6	Utica
1UH	17	7/20/2019	17774	17901	6	Utica
1UH	18	7/21/2019	17625	17753	6	Utica
1UH	19	7/22/2019	17477	17604	6	Utica
1UH	20	7/22/2019	17329	17456	6	Utica
1UH	21	7/23/2019	17180	17307	6	Utica
1UH	22	7/23/2019	17032	17159	6	Utica
1UH	23	7/23/2019	16883	17010	6	Utica
1UH	24	7/24/2019	16735	16862	6	Utica
1UH	25	7/24/2019	16586	16713	6	Utica
1UH	26	7/24/2019	16438	16565	6	Utica
1UH	27	7/25/2019	16289	16417	6	Utica
1UH	28	7/25/2019	16141	16268	6	Utica
1UH	29	7/25/2019	15992	16120	6	Utica
1UH	30	7/26/2019	15844	15971	6	Utica
1UH	31	7/26/2019	15695	15823	6	Utica
1UH	32	7/26/2019	15547	15674	6	Utica
1UH	33	7/27/2019	15398	15526	6	Utica
1UH	34	7/27/2019	15398	15526	6	Utica
1UH	35	7/27/2019	15101	15229	6	Utica
1UH	36	7/27/2019	14953	15080	6	Utica
1UH	37	7/28/2019	14805	14932	6	Utica
1UH	38	7/28/2019	14656	14783	6	Utica
1UH	39	7/28/2019	14508	14635	6	Utica
1UH	40	7/29/2019	14359	14486	6	Utica
1UH	41	7/29/2019	14211	14338	6	Utica
1UH	42	7/29/2019	14062	14189	6	Utica
1UH	43	7/29/2019	13914	14041	6	Utica
1UH	44	7/30/2019	13765	13893	6	Utica
1UH	45	7/30/2019	13617	13744	6	Utica
1UH	46	7/31/2019	13486	13596	6	Utica
1UH	47	8/1/2019	13320	13447	6	Utica
1UH	48	8/1/2019	13171	13299	6	Utica
1UH	49	8/2/2019	12976	13103	6	Utica
1UH	50	8/3/2019	12874	13002	6	Utica
1UH	51	8/3/2019	12726	12853	6	Utica
1UH	52	8/4/2019	12578	12705	6	Utica
1UH	53	8/4/2019	12429	12556	6	Utica
1UH	54	8/5/2019	12281	12408	6	Utica
1UH	55	8/5/2019	12132	12259	6	Utica
1UH	56	8/6/2019	11984	12111	6	Utica
1UH	57	8/7/2019	11835	11962	6	Utica
1UH	58	8/7/2019	11687	11814	6	Utica
1UH	59	8/8/2019	11538	11665	6	Utica

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STIMULATION RECORD

Well #	Stage #	Date	Average Rate (bpm)	Average Pressure (psi)	Max Pressure (psi)	ISIP (psi)	Proppant Volume (100*lb)	Freshwater Volume	Nitrogen
1UH	1	7/3/2019	76.0	11,630	12,274	7501	362,158	9,970	0
1UH	2	7/4/2019	76.9	11,595	12,120	7822	359,210	9,749	0
1UH	3	7/5/2019	77.6	11,312	12,206	7664	359,060	10,909	0
1UH	4	7/6/2019	75.2	11,183	12,175	7680	359,620	10,380	0
1UH	5	7/7/2019	78.0	11,451	12,640	7304	359,220	10,292	0
1UH	6	7/9/2019	78.7	11,502	12,456	7758	360,173	10,267	0
1UH	7	7/11/2019	78.0	11,416	12,489	7532	361,820	10,205	0
1UH	8	7/12/2019	81.0	11,508	12,313	7853	360,881	10,324	0
1UH	9	7/13/2019	70.0	10,783	12,430	7880	358,500	9,972	0
1UH	10	7/14/2019	65.0	10,972	12,466	7659	360,080	11,330	0
1UH	11	7/16/2019	79.0	11,771	12,203	7676	360,120	10,155	0
1UH	12	7/17/2019	74.0	10,909	12,598	7763	360,221	10,249	0
1UH	13	7/17/2019	81.0	11,645	12,341	7728	361,423	10,030	0
1UH	14	7/18/2019	83.0	11,491	12,146	7801	356,429	10,318	0
1UH	15	7/19/2019	76.6	11,497	12,308	7869	357,009	10,752	0
1UH	16	7/20/2019	69.7	10,735	12,357	7987	360,036	11,177	0
1UH	17	7/21/2019	81.0	11,059	11,779	8133	360,580	10,026	0
1UH	18	7/21/2019	80.0	11,410	12,186	7931	360,005	10,101	0
1UH	19	7/22/2019	82.0	11,263	12,231	7274	360,079	10,134	0
1UH	20	7/23/2019	83.7	11,396	12,295	7496	360,046	10,235	0
1UH	21	7/23/2019	76.0	11,266	12,450	7722	360,177	11,307	0
1UH	22	7/23/2019	73.0	10,859	12,317	7441	360,170	10,203	0
1UH	23	7/24/2019	80.9	10,893	12,404	7453	360,751	10,121	0
1UH	24	7/24/2019	83.0	11,219	12,115	7871	360,850	10,135	0
1UH	25	7/24/2019	81.0	11,037	12,520	7568	560,720	12,534	0
1UH	26	7/24/2019	80.9	10,902	12,315	6964	560,066	12,567	0
1UH	27	7/25/2019	81.0	10,741	12,281	7493	560,313	12,464	0
1UH	28	7/25/2019	78.0	10,680	12,259	7237	560,231	13,088	0
1UH	29	7/26/2019	82.4	10,994	11,892	8199	560,076	12,447	0
1UH	30	7/26/2019	83.0	11,052	12,448	7452	560,187	11,863	0
1UH	31	7/26/2019	83.0	11,407	12,184	7753	360,241	9,736	0
1UH	32	7/26/2019	80.4	10,796	12,363	7150	360,079	10,156	0
1UH	33	7/27/2019	83.0	11,043	12,065	7969	360,600	10,061	0
1UH	34	7/27/2019	81.0	11,079	12,207	7805	361,180	9,778	0
1UH	35	7/27/2019	79.9	10,667	11,673	7848	360,020	9,907	0
1UH	36	7/28/2019	82.7	10,874	11,428	7347	360,040	9,929	0
1UH	37	7/28/2019	82.7	10,921	12,258	7421	360,414	9,652	0
1UH	38	7/28/2019	84.0	11,064	11,987	7348	360,080	9,748	0
1UH	39	7/29/2019	81.5	10,826	11,680	7733	361,060	9,799	0
1UH	40	7/29/2019	83.0	10,973	11,682	7456	360,140	9,836	0
1UH	41	7/29/2019	81.2	10,939	12,065	7468	358,220	9,572	0
1UH	42	7/29/2019	72.6	10,199	11,613	7881	361,500	9,798	0
1UH	43	7/30/2019	82.3	10,804	11,400	7625	362,020	9,871	0
1UH	44	7/30/2019	83.0	11,045	12,285	7741	361,741	9,386	0
1UH	45	7/30/2019	79.8	10,994	12,204	8008	361,120	9,539	0
1UH	46	7/31/2019	76.5	10,505	11,399	8344	360,060	9,813	0
1UH	47	8/1/2019	81.2	11,248	12,436	7988	360,436	9,676	0
1UH	48	8/2/2019	81.0	11,075	11,850	7675	360,020	9,860	0
1UH	49	8/2/2019	77.8	10,872	111,957	8013	360,160	9,856	0
1UH	50	8/3/2019	81.8	11,056	11,507	7005	360,011	9,650	0
1UH	51	8/4/2019	82.8	10,904	11,822	7346	361,100	9,906	0
1UH	52	8/4/2019	80.6	11,111	12,382	7261	360,211	9,340	0
1UH	53	8/5/2019	80.5	11,077	11,804	7151	360,240	9,904	0
1UH	54	8/5/2019	79.0	10,738	12,478	7404	360,200	10,031	0
1UH	55	8/6/2019	81.0	11,520	12,395	6959	360,163	9,195	0
1UH	56	8/7/2019	83.0	10,940	12,439	7028	360,017	10,580	0
1UH	57	8/7/2019	82.0	11,020	12,292	6756	360,085	9,889	0
1UH	58	8/8/2019	84.0	11,295	12,441	7796	360,489	10,207	0
1UH	59	8/8/2019	80.2	10,777	12,422	7181	360,072	10,754	0

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/3/2019
Job End Date:	8/8/2019
State:	West Virginia
County:	Marshall
API Number:	47-051-02047-00-00
Operator Name:	American Petroleum Partners Operating, LL
Well Name and Number:	Casterly Rock-1UH
Latitude:	39.96632889
Longitude:	-80.66557181
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	11,114
Total Base Water Volume (gal):	25,635,666
Total Base Non Water Volume:	119,673

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	Supplied by Operator	Base Fluid	Water	7732-18-5	100.00000	88.09872	
Other Chemical (s)	Listed Above	See Trade Name (s) List					
			Water	7732-18-5	100.00000	0.01760	

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Frac Focus
Chemical Disclosure Registry



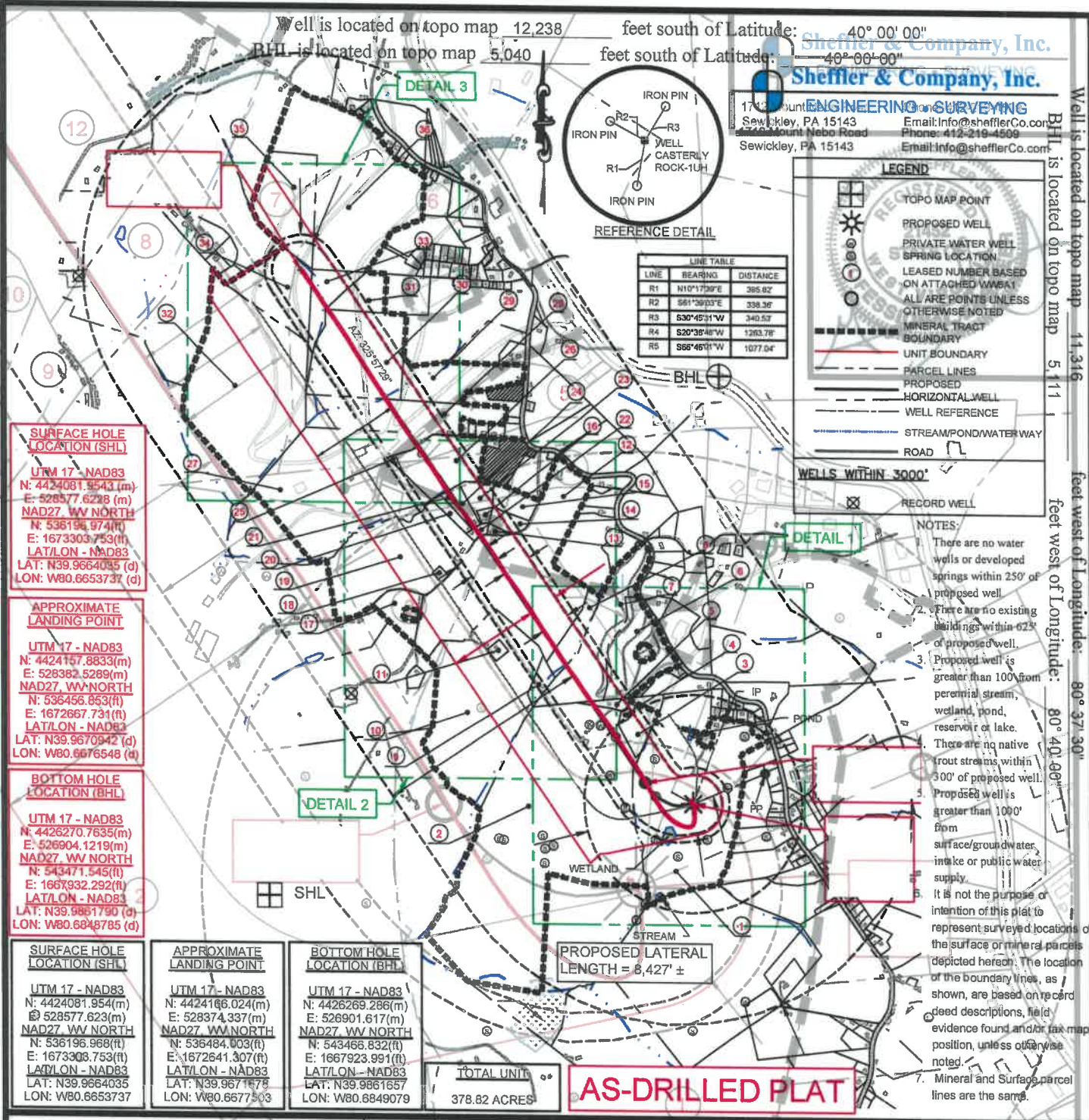
			Water	7732-18-5	85.00000	0.29937	
			Water	7732-18-5	97.00000	0.01876	
Bactron K-139	FTSI	Biocide		Listed Below			
FRACWAVE HVS	FTSI	Viscosifier		Listed Below			
CS-750 SI	FTSI	Scale Inhibitor		Listed Below			
100 Mesh Sand	FTSI	Proppant		Listed Below			
CI-150	FTSI	Acid Corrosion Inhibitor		Listed Below			
40/70 White	FTSI	Proppant		Listed Below			
10.1%-15.0% HCL	FTSI	Acid		Listed Below			
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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.							
		Silica, Quartz	14808-60-7	100.00000	9.25151		
		Silica, Quartz	14808-60-7	100.00000	2.20782		

				Hydrogen Chloride	7647-01-0	15.00000	0.05283
				Petroleum distillates, hydrotreated light	64742-47-8	60.00000	0.03112
				Friction Reducer	Proprietary	40.00000	0.02074
				Proprietary Scale Inhibitor	Proprietary	10.00000	0.00193
				Quaternary ammonium compound	68424-85-1	10.00000	0.00176
				Ethanol	64-17-5	5.00000	0.00088
				Glutaraldehyde	111-30-8	5.00000	0.00088
				Methanol	67-56-1	90.00000	0.00086
				Thiourea-formaldehyde Copolymer	68527-49-1	10.00000	0.00010
				Fatty Acids, Tall Oil	61790-12-3	10.00000	0.00010
				Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00010
				Propargyl Alcohol	107-19-7	5.00000	0.00005
				N-olefins	Proprietary	3.00000	0.00003

* 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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FILE #: CASTERLY ROCK-1UH

DRAWING #: CRN-1UH_AS DRILL R1.DWG

SCALE: 1"=2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: USGS MONUMENT JX0787: 1319.9'

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.

SIGNED: *[Signature]*

R.P.E.: 21452 L.L.S.: P.S. NO.

GARY A. SHEFFLER JR.
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF WEST VIRGINIA
 21452
 PLACE SEAL HERE

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WYDEP OFFICE OF OIL & GAS 600 57TH STREET CHARLESTON, WV 25304

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK OHIO RIVER ELEVATION: 1,338.53' AS-DRILLED ELEVATION: 1,319.21'

COUNTY/DISTRICT: MARSHALL UNION QUADRANGLE: MOUNDSMILE WV

SURFACE OWNER: LESLIE B. & LORI D. SCHABER ACREAGE: 7.171575

OIL & GAS ROYALTY OWNER: CAROL A. WENSYLA & CAROL A. MILLER ACTING AS TRUSTEE FOR THE CAROL A. WENSYLA IRREVOCABLE TRUST DATED OCTOBER 28, 2010 AND JOHN F. MILLER, SR. TRUSTEE OF THE JOHN F. MILLER, SR. IRREVOCABLE TRUST DATED OCTOBER 28, 2010 TRUST ACREAGE: 7.37474

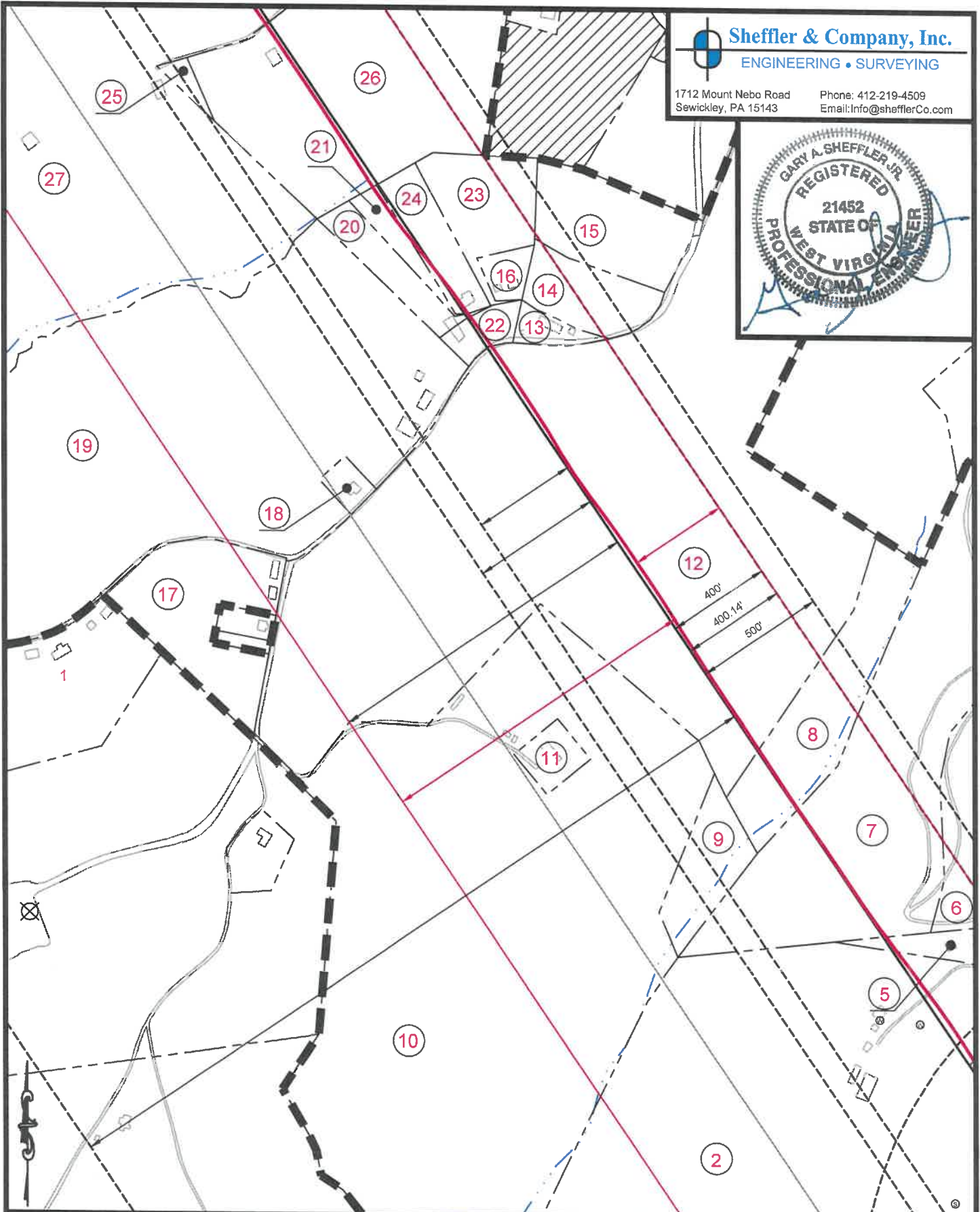
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT & REPLUG OTHER CHANGE (S) (SPECIFY) AS-DRILLED

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 13,395' ± TMTD: 20,271.00' ±

WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, LLC DESIGNATED AGENT: STEVEN GREEN

Address: 4600 J. BARRY COURT SUITE 310 Address: 3009 SUMMERS STREET SUITE 100

City: CANONSBURG State: PA Zip Code: 15317 City: CHARLESTON State: WV Zip Code: 25301



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: May 22, 2018 - AS-DRILLED June 28, 2019

OPERATOR'S WELL #: CASTERLY ROCK-1UH

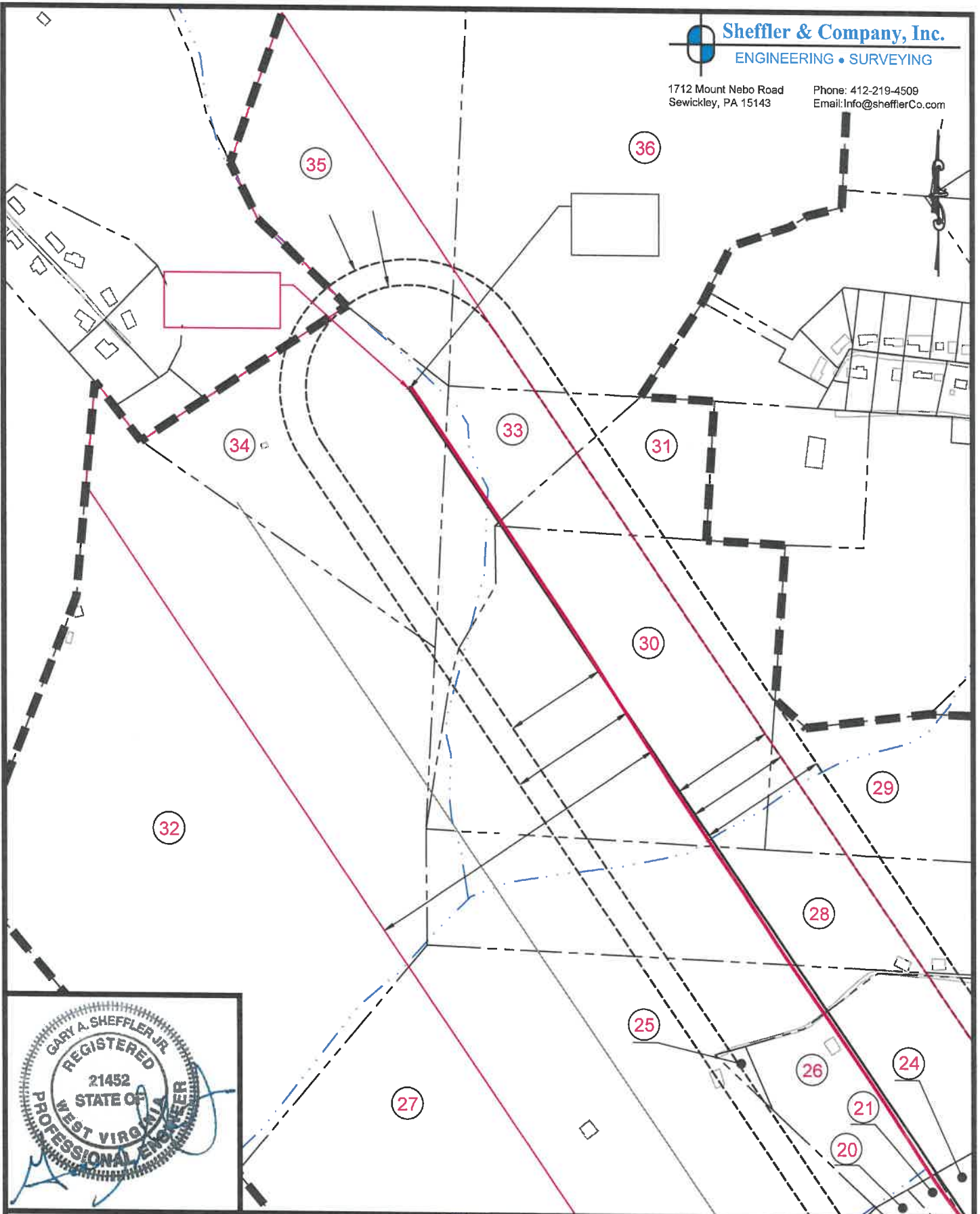
API WELL # 47 051 02047
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK - OHIO RIVER ELEVATION: 1,338.53' AS-DRILLED ELEVATION: 1,312.1'
 COUNTY/DISTRICT: MARSHALL / UNION QUADRANGLE: MOUNDSVILLE, WV
 SURFACE OWNER: LESLIE B. & LORI D. SCHABER ACREAGE: 71.75
 OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL A/K/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010
AND JOHN F. MILLER, SR. TRUSTEE OF THE JOHN F. MILLER, SR. IRREVOCABLE TRUST, DATED OCTOBER 28, 2010. TRUST ACREAGE: 73.74

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: POINT PLEASANT ESTIMATED DEPTH: TVD: 11,395' ± TMD: 20,271.09' ±
 WELL OPERATOR: AMERICAN PETROLEUM PARTNERS, LLC DESIGNATED AGENT: STEVEN GREEN
 Address: 4600 J. BARRY COURT, SUITE 310 Address: 300 SUMMERS ST, SUITE 1000
 City CANONSBURG State PA Zip Code 15317 City CHARLESTON State WV Zip Code 25301



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP

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

Well Type:

- Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: SHORT CREEK - OHIO RIVER

ELEVATION: 1,338.53' AS-DRILLED ELEVATION: 1,312.1'

COUNTY/DISTRICT: MARSHALL / UNION

QUADRANGLE: MOUNDSVILLE, WV

SURFACE OWNER: LESLIE B. & LORI D. SCHABER

ACREAGE: 71.75

OIL & GAS ROYALTY OWNER: CAROL A. WENSYEL A/K/A CAROL A. MILLER, ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL IRREVOCABLE TRUST DATED OCTOBER 28, 2010

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DESIGNATED AGENT: STEVEN GREEN

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City CANONSBURG State PA Zip Code 15317

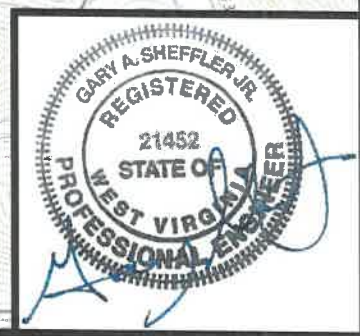
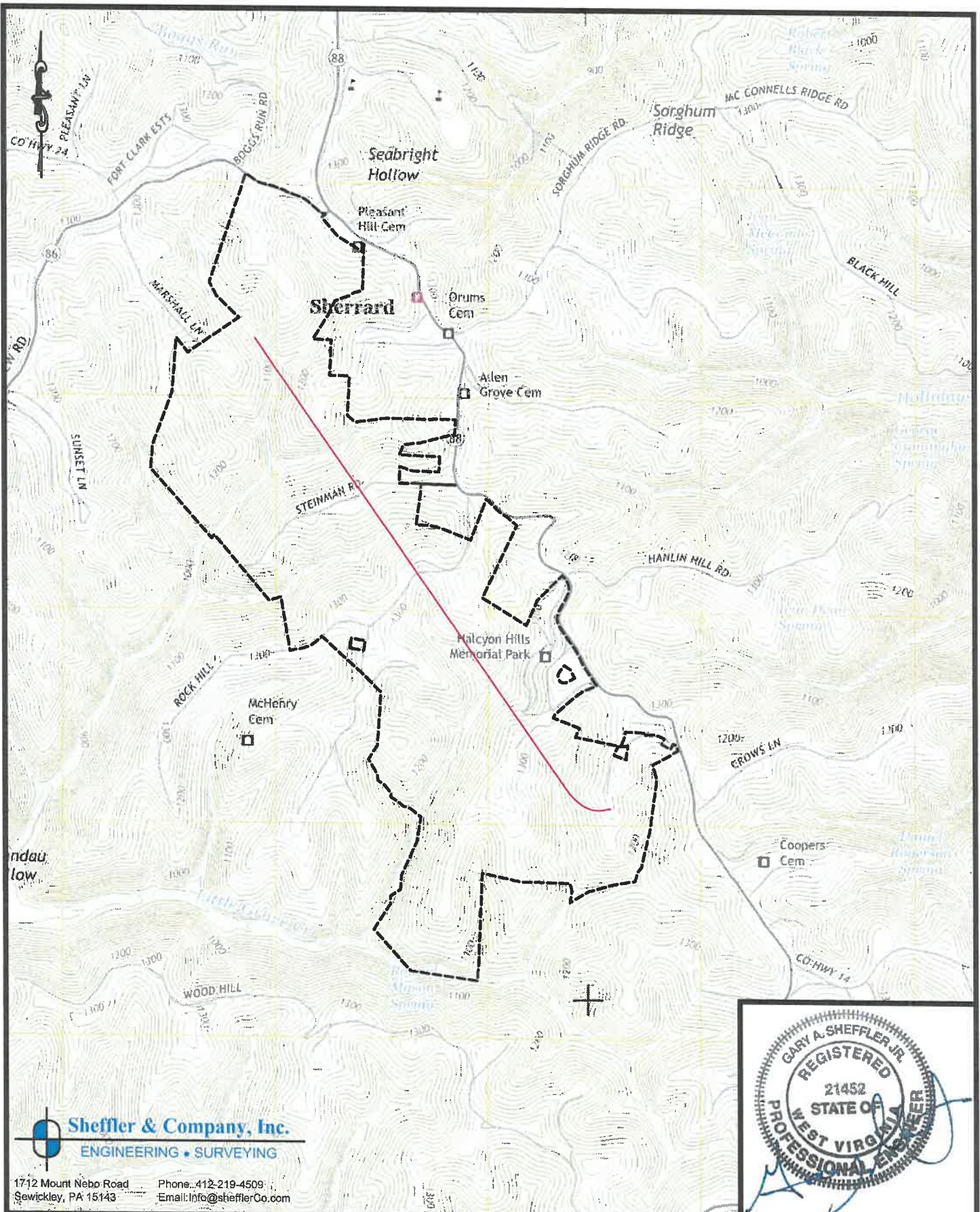
City CHARLESTON State WV Zip Code 25301



DATE: May 22, 2018 - AS-DRILLED June 28, 2019

OPERATOR'S WELL #: CASTERLY ROCK-1UH

API WELL #	<u>47</u>	<u>051</u>	<u>02047</u>
	STATE	COUNTY	PERMIT



Sheffler & Company, Inc.
ENGINEERING • SURVEYING
1712 Mount Nebo Road Phone: 412-219-4509
Sewickley, PA 15143 Email: info@shefflerCo.com

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1 TAX MAP NO.
13-0013-0010-0000-0000
ASSESSED ACREAGE = 73.79
SURFACE OWNER:
SCHABER, LESLIE B. & LORI D.
MINERAL OWNER:
CAROL A. WENSYEL A/K/A CAROL A. MILLER,
ACTING AS TRUSTEE FOR THE CAROL A. WENSYEL
IRREVOCABLE TRUST DATED OCTOBER 28, 2010

13 TAX MAP NO.
13-0010-0007-0003-0000
ASSESSED ACREAGE = 0.49
SURFACE OWNERS:
DEREK M. & ANGELA M. SALATINO
MINERAL OWNERS:
ROBERT LEROY STRAIT JR. AND
DIANE MARY STRAIT

2 TAX MAP NO.
13-0013-0009-0000-0000
ASSESSED ACREAGE = 156.14
SURFACE & MINERAL OWNERS:
HELLER, EDGAR

14 TAX MAP NO.
13-0010-0007-0000-0000
ASSESSED ACREAGE = 4.12
SURFACE & MINERAL OWNERS:
DREW S. & REBECCA A. BECKETT

3 TAX MAP NO.
13-0013-0009-0003-0000
ASSESSED ACREAGE = 4.76
SURFACE & MINERAL OWNERS:
JOHN E. KOCH AND
BARBARA A. KOCH

15 TAX MAP NO.
13-0010-0012-0000-0000
ASSESSED ACREAGE = 4.41
SURFACE & MINERAL OWNER:
RANDOLPH, PEARLY D.

4 TAX MAP NO.
13-0013-0008-0004-0000
ASSESSED ACREAGE = 0.66
SURFACE & MINERAL OWNERS:
JOHN E. KOCH AND
BARBARA A. KOCH

16 TAX MAP NO.
13-0010-0007-0002-0000
ASSESSED ACREAGE = 0.71
SURFACE & MINERAL OWNERS:
PEGG, RICHARD, & JUDITH E.

5 TAX MAP NO.
13-0013-0009-0001-0000
ASSESSED ACREAGE = 1.40
SURFACE & MINERAL OWNERS:
ALTMAYER FUNERAL HOMES, INC.

17 TAX MAP NO.
13-0010-0041-0000-0000
ASSESSED ACREAGE = 6.14
SURFACE & MINERAL OWNERS:
DECREASE, VINCENT MICHAEL

6 TAX MAP NO.
13-0010-0036-0000-0000
ASSESSED ACREAGE = 19.28
SURFACE & MINERAL OWNERS:
CORNERSTONE FAMILY SERVICES
OF WEST VIRGINIA, LLC.

18 TAX MAP NO.
13-0010-0006-0001-0000
ASSESSED ACREAGE = 0.54
SURFACE OWNERS:
KIMBERLY, JERAMY R.
MINERAL OWNERS:
RANDOLPH, PEARLY D.

7 TAX MAP NO.
13-0010-0037-0000-0000
ASSESSED ACREAGE = 25.0
SURFACE & MINERAL OWNERS:
CORNERSTONE FAMILY SERVICES
OF WEST VIRGINIA, LLC.

19 TAX MAP NO.
13-0010-0008-0000-0000
ASSESSED ACREAGE = 38.00
SURFACE & MINERAL OWNERS:
RANDOLPH, PEARLY D.

8 TAX MAP NO.
13-0010-0038-0000-0000
ASSESSED ACREAGE = 6.4
SURFACE & MINERAL OWNERS:
CORNERSTONE FAMILY SERVICES
OF WEST VIRGINIA, LLC.

20 TAX MAP NO.
13-0010-0007-0005-0000
ASSESSED ACREAGE = 1.78
SURFACE & MINERAL OWNERS:
PEGG, DANNY ALAN, & DEBRA J.

9 TAX MAP NO.
13-0010-0038-0000-0000
ASSESSED ACREAGE = 2.66
SURFACE & MINERAL OWNERS:
CORNERSTONE FAMILY SERVICES
OF WEST VIRGINIA, LLC.

21 TAX MAP NO.
13-0010-0007-0007-0000
ASSESSED ACREAGE = 0.87
SURFACE & MINERAL OWNERS:
PEGG, DANNY ALAN, & DEBRA J.

10 TAX MAP NO.
13-0010-0040-0000-0000
ASSESSED ACREAGE = 64.11
SURFACE & MINERAL OWNERS:
HILL, MICHAEL W., & JENNIFER S.

22 TAX MAP NO.
13-0010-0007-0004-0000
ASSESSED ACREAGE = 0.91
SURFACE & MINERAL OWNERS:
PEGG, DANNY ALAN, & DEBRA J.

11 TAX MAP NO.
13-0010-0040-0001-0000
ASSESSED ACREAGE = 1.00
SURFACE & MINERAL OWNERS:
HILL, MICHAEL W., & JENNIFER S.

23 TAX MAP NO.
13-0010-0007-0006-0000
ASSESSED ACREAGE = 3.37
SURFACE OWNERS:
PEGG, RICHARD, ET UX.
MINERAL OWNERS:
JUDITH EVELYN PEGG

12 TAX MAP NO.
13-0010-0006-0002-0000
ASSESSED ACREAGE = 72.18
SURFACE & MINERAL OWNERS:
RANDOLPH, ROBERT A.

24 TAX MAP NO.
13-0010-0007-0001-0000
ASSESSED ACREAGE = 2.15
SURFACE OWNERS:
HUGHES, IAN E. & TERESA D.
MINERAL OWNERS:
JESSICA D. KNAPP, NKA
JESSICA D. HUTSON

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25 TAX MAP NO.
13-0010-0008-0002-0000
ASSESSED ACREAGE = 0.32

SURFACE OWNERS:
MCCABE FAMILY TRUST

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP
DOGWOOD ACRES, LLC

34 TAX MAP NO.
13-0007-0036-0000-0000
ASSESSED ACREAGE = 18.86

SURFACE OWNERS:
GAMBLE, REBECCA C. EST.

MINERAL OWNERS:
AMY J. GAMBLE,
CHARLES RAY MEREDITH,
DOUGLAS I. GAMBLE,
SHELLEY L. TUSKEY,
SHERRY L. GAMBLE,
DONNA SUE KIRCH,
MARTHA ANN MIGLIORINI,
CYNTHIA M. GAMBLE,
KATHRYN J. MERCURIO

26 TAX MAP NO.
13-0010-0008-0000-0000
ASSESSED ACREAGE = 17.05

SURFACE & MINERAL OWNERS:
KUDLAK, JAMES K. & LORI.

35 TAX MAP NO.
13-0007-0038-0000-0000
ASSESSED ACREAGE = 20.00

SURFACE OWNERS:
CALDWELL, JANICE ANN - LIFE

MINERAL OWNERS:
CHARLES W. CALDWELL
RICHARD J. CALDWELL
CHRISTIAN A. CALDWELL

27 TAX MAP NO.
13-0010-0005-0000-0000
ASSESSED ACREAGE = 66.00

SURFACE OWNERS:
MCCABE FAMILY TRUST

MINERAL OWNERS:
RESOURCE MINERALS HEADWATER I, LP
DOGWOOD ACRES, LLC.

28 TAX MAP NO.
13-0007-0031-0003-0000
ASSESSED ACREAGE = 24.56

SURFACE & MINERAL OWNERS:
PARSONS, CLARENCE E., ET UX.

36 TAX MAP NO.
13-0007-0037-0000-0000
ASSESSED ACREAGE = 67.28

SURFACE OWNERS:
CALDWELL, JANICE ANN - LIFE

MINERAL OWNERS:
CHARLES W. CALDWELL
RICHARD J. CALDWELL
CHRISTIAN A. CALDWELL

29 TAX MAP NO.
13-0007-0027-0000-0000
ASSESSED ACREAGE = 16.83

SURFACE OWNERS:
BLACK, ERNEST E. - LIFE

MINERAL OWNERS:
ERNEST ELLSWORTH BLACK (LIFE ESTATE)
SCOTT A. BLACK (REMAINDERMAN)
TIMOTHY JON BLACK (REMAINDERMAN)

30 TAX MAP NO.
13-0007-0032-0000-0000
ASSESSED ACREAGE = 32.80

SURFACE OWNERS:
MERINAR & KOONTZ CO.

MINERAL OWNERS:
MERINAR & KOONTZ CO. D/B/A
A-1 AUTO PARTS

31 TAX MAP NO.
13-0007-0034-0000-0000
ASSESSED ACREAGE = 6.87

SURFACE & MINERAL OWNERS:
KAHLBAUGH, DAVID W. & DELORES

32 TAX MAP NO.
13-0010-0003-0000-0000
ASSESSED ACREAGE = 74.00

SURFACE & MINERAL OWNERS:
CINDY L. VARGO,
LINDA S. ELSON,
MARK S. MUSILLI,
PAUL J. MUSILLI

33 TAX MAP NO.
13-0007-0035-0000-0000
ASSESSED ACREAGE = 9.06

SURFACE & MINERAL OWNERS:
GAMBLE, ESTHER M.

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