

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

API 47 - 061 - 01822 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 17H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. E., Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4386021.9 Easting 561912.9
Landing Point of Curve Northing 4386659.3 Easting 562581.1
Bottom Hole Northing 4389959.9 Easting 560304.0

Elevation (ft) 1,412' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

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

Mud Type(s) and Additive(s)
SYNTHETIC BASED MUD FOR HORIZONTAL SECTION; BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-Seal Plus, HRP, Lime, M-I WATE (BARITE), M-I-X II MEDIUM,
MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 1/16/19 Date drilling commenced 7/2/2019 Date drilling ceased 3/31/2020
Date completion activities began 5/29/2020 Date completion activities ceased 6/20/2020
Verbal plugging (Y/N) NA 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 726', 1105', 1135' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2150', 2470' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1095' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Reviewed by:
Bryan Harris

API 47-061 - 01822

Farm name McClellan

Well number 17H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	24"	55'	N		NA	Y
Surface	17.5"	13.375"	1,245'	N	54.5	NA	Y, 11 bbl
Coal							
Intermediate 1	12.25"	9.625"	2,703'	N	40	NA	Y, 25 bbl
Intermediate 2							
Intermediate 3							
Production	8.5"	5.5"	22,965'	N	20	NA	Y, 7.5 bbl
Tubing							
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	4500 psi ready mix					CTS	48
Surface	Class A	1,004	15.6	1.18	1,184	CTS	8
Coal							
Intermediate 1	Class A	904	15.2	1.18	1,066	CTS	8
Intermediate 2							
Intermediate 3							
Production	Class A	4,100	14.5	1.16	4,744	2,481'	48
Tubing							

Drillers TD (ft) 23,000

Loggers TD (ft) 22,970'

Deepest formation penetrated Marcellus

Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 5,113'

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

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

Surface: Bow spring centralizers every 3rd joint or approximately 120'

Surface: Bow spring centralizers every 3rd joint or approximately 120'

Production: Rigid body centralizers placed at a minimum of every other joint (~80') from TD 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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McClellan 17H Perforation Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	5/30/2020	22,859	0	0
2	5/30/2020	22,654	22,815	40
3	5/30/2020	22,451	22,611	40
4	5/30/2020	22,247	22,401	40
5	5/31/2020	22,044	22,205	40
6	5/31/2020	21,841	22,001	40
7	5/31/2020	21,637	21,798	40
8	5/31/2020	21,436	21,595	40
9	6/1/2020	21,231	21,392	40
10	6/1/2020	21,028	21,188	40
11	6/1/2020	20,824	20,985	40
12	6/2/2020	20,621	20,782	40
13	6/2/2020	20,418	20,578	40
14	6/2/2020	20,214	20,375	40
15	6/2/2020	20,011	20,172	40
16	6/2/2020	19,808	19,968	40
17	6/3/2020	19,605	19,765	40
18	6/3/2020	19,401	19,562	40
19	6/3/2020	19,198	19,359	40
20	6/4/2020	18,995	19,155	40
21	6/4/2020	18,791	18,952	40
22	6/4/2020	18,588	18,749	40
23	6/5/2020	18,385	18,542	40
24	6/5/2020	18,182	18,342	40
25	6/5/2020	17,978	18,139	40
26	6/5/2020	17,775	17,936	40
27	6/6/2020	17,572	17,732	40
28	6/6/2020	17,368	17,529	40
29	6/6/2020	17,165	17,326	40
30	6/6/2020	16,962	17,122	40
31	6/6/2020	16,759	16,919	40
32	6/7/2020	16,555	16,716	40
33	6/7/2020	16,352	16,513	40
34	6/7/2020	16,149	16,309	40
35	6/7/2020	15,945	16,106	40
36	6/8/2020	15,742	15,903	40
37	6/8/2020	15,539	15,699	40
38	6/8/2020	15,335	15,496	40
39	6/9/2020	15,132	15,293	40
40	6/9/2020	14,929	15,090	40
41	6/9/2020	14,726	14,886	40
42	6/9/2020	14,726	14,886	40
43	6/9/2020	14,319	14,480	40
44	6/10/2020	14,116	14,276	40
45	6/10/2020	13,912	14,073	40
46	6/10/2020	13,709	13,870	40
47	6/10/2020	13,506	13,666	40

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McClellan 17H Perforation Summary

Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
48	6/11/2020	13,303	13,463	40
49	6/11/2020	13,099	13,260	40
50	6/11/2020	12,896	13,057	40
51	6/12/2020	12,693	12,853	40
52	6/12/2020	12,489	12,650	40
53	6/13/2020	12,286	12,447	40
54	6/13/2020	12,083	12,243	40
55	6/14/2020	11,880	12,040	40
56	6/15/2020	11,676	11,837	40
57	6/15/2020	11,473	11,634	40
58	6/16/2020	11,270	11,430	40
59	6/16/2020	11,066	11,227	40
60	6/17/2020	10,863	11,024	40
61	6/17/2020	10,660	10,820	40
62	6/18/2020	10,457	10,617	40
63	6/19/2020	10,253	10,414	40
64	6/19/2020	10,050	10,211	40
65	6/19/2020	9,847	10,007	40
66	6/20/2020	9,643	9,802	40

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McClellan 17H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
1	5/30/2020	6,245	0	9,388	65	373	6,886	210,080	771
2	5/30/2020	5,865	8,250	9,546	89	97	8,746	455,880	517
3	5/30/2020	6,238	6,990	9,507	91	69	9,242	454,660	502
4	5/30/2020	6,162	7,489	9,653	90	29	8,810	454,920	496
5	5/31/2020	5,689	6,826	9,285	90	25	8,873	454,580	498
6	5/31/2020	5,896	7,575	9,469	87	40	9,857	455,110	498
7	5/31/2020	5,858	7,791	9,714	90	34	9,304	456,460	485
8	5/31/2020	5,906	7,509	9,810	90	35	8,972	454,704	478
9	6/1/2020	6,173	7,608	9,781	89	47	8,627	457,020	475
10	6/1/2020	6,235	7,717	9,921	91	60	9,694	466,090	480
11	6/1/2020	6,231	7,480	9,738	90	20	9,274	458,100	465
12	6/2/2020	5,973	7,302	9,605	90	35	8,583	453,690	460
13	6/2/2020	5,915	7,284	9,551	89	20	8,487	453,630	472
14	6/2/2020	6,334	7,224	9,382	89	28	9,019	453,260	464
15	6/2/2020	5,609	7,419	9,397	90	99	9,032	453,870	447
16	6/2/2020	5,732	7,124	9,508	90	30	8,887	463,620	442
17	6/3/2020	5,532	7,221	9,557	90	30	8,974	452,950	440
18	6/3/2020	5,865	7,168	9,453	90	22	8,275	455,230	448
19	6/3/2020	5,450	7,211	9,104	84	25	8,172	437,160	429
20	6/4/2020	5,638	6,938	9,501	90	25	8,323	458,960	424
21	6/4/2020	5,702	6,983	9,330	87	49	8,511	461,220	420
22	6/4/2020	6,051	7,340	9,503	90	25	8,307	454,380	415
23	6/5/2020	5,948	6,858	9,461	90	25	8,156	455,660	412
24	6/5/2020	5,556	6,998	9,543	89	20	8,074	458,690	405
25	6/5/2020	5,621	6,468	9,421	90	20	7,839	418,710	415
26	6/5/2020	5,818	6,579	9,384	90	25	8,256	460,000	397
27	6/6/2020	5,435	7,158	9,329	88	25	8,009	455,360	393
28	6/6/2020	5,813	7,212	9,674	89	21	8,093	458,880	385
29	6/6/2020	5,456	6,697	9,834	88	142	7,907	427,020	384
30	6/6/2020	5,569	7,495	9,483	87	30	8,083	455,000	379
31	6/6/2020	5,585	7,735	9,778	88	25	7,996	425,830	375
32	6/7/2020	6,070	7,097	9,581	89	25	8,256	454,440	371
33	6/7/2020	5,492	7,385	9,544	92	17	8,296	452,050	366
34	6/7/2020	5,831	7,277	9,422	93	37	8,208	454,790	361
35	6/7/2020	5,827	7,315	9,033	88	30	8,123	458,220	351
36	6/8/2020	5,921	6,748	9,276	91	35	8,165	453,810	352
37	6/8/2020	5,771	7,159	9,135	90	15	8,115	470,300	360
38	6/8/2020	5,444	6,388	8,809	89	20	7,897	454,820	343
39	6/9/2020	5,809	7,038	9,185	91	25	8,266	456,050	350
40	6/9/2020	5,898	7,322	9,141	90	30	8,015	457,550	332
41	6/9/2020	5,651	6,757	8,871	90	30	7,885	461,520	330
42	6/9/2020	5,728	7,034	9,120	90	85	8,402	456,800	326
43	6/9/2020	5,564	6,661	8,943	90	24	8,148	455,240	322
44	6/10/2020	5,479	7,211	8,849	90	38	8,007	457,620	317
45	6/10/2020	5,446	7,330	8,974	90	45	7,325	454,780	309
46	6/10/2020	6,546	6,928	9,030	91	31	7,779	454,640	312
47	6/10/2020	6,186	6,540	8,979	90	26	7,945	451,020	303
48	6/11/2020	5,437	6,631	8,970	92	48	7,944	462,520	298

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McClellan 17H Stimulation Report

Stage Number	Report Date	ISIP (psi)	Breakdown Pressure (psi)	Avg Treating Pressure (psi)	Avg Treating Rate (BPM)	Pad Volume (bbls)	Total Clean Fluid (Bbls)	Total Proppant Amount (lbs)	Flush Volume (bbls)
49	6/11/2020	5,524	6,062	8,643	92	23	7,579	460,040	293
50	6/11/2020	5,682	6,686	8,757	92	27	7,869	453,760	290
51	6/12/2020	5,547	6,975	8,953	90	28	7,759	454,800	285
52	6/12/2020	6,227	7,395	9,131	90	35	7,236	437,410	286
53	6/13/2020	5,503	7,213	9,056	89	200	8,614	459,780	274
54	6/13/2020	5,592	7,498	9,194	91	40	8,966	453,940	310
55	6/14/2020	5,648	7,293	9,160	88	100	8,514	456,880	265
56	6/15/2020	5,644	7,473	8,785	91	27	8,753	458,180	307
57	6/15/2020	5,368	7,286	8,458	90	102	8,428	460,580	256
58	6/16/2020	6,136	6,742	8,555	92	24	8,998	460,240	260
59	6/16/2020	5,288	7,271	8,550	90	100	8,435	452,180	251
60	6/17/2020	6,100	6,938	8,386	91	55	8,704	458,310	244
61	6/17/2020	5,146	7,733	7,930	87	33	9,287	457,040	239
62	6/18/2020	5,464	7,570	8,499	90	120	8,358	455,390	234
63	6/19/2020	5,538	6,819	8,116	90	33	8,735	453,720	237
64	6/19/2020	5,549	7,794	8,038	90	100	8,306	455,730	228
65	6/19/2020	5,806	7,664	8,125	91	54	8,854	460,180	224
66	6/20/2020	5,358	7,881	8,012	93	20	8,659	456,340	218

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McClellan Lithology

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Sand/silt	0	160	Sand/silt
silt/red shale	160	490	silt/red shale
siltstone/sandstone/limestone	490	520	siltstone/sandstone/limestone
limestone/siltstone/sandstone	520	576	siltstone
coal	576	580	coal
siltstone/limestone/shale	580	760	siltstone/shale
coal	760	992	siltstone/shale/limestone
siltstone/sandstone	992	998	coal
coal	998	1084	siltstone/shale/limestone
sandstone/siltstone/limestone	1084	1092	coal - Pittsburgh
coal-Pittsburgh	1092	1120	siltstone/shale/limestone
sandstone/limestone	1120	1150	sandstone
red shale/siltstone	1150	1480	siltstone/limestone/sand/red shale
Limestone/siltstone	1480	2050	siltstone/sandstone
sandstone	2050	2110	sandstone
sandstone/siltstone/red shale	2110	2260	siltstone/sandstone
siltstone/sandstone	2260	2470	siltstone/limestone
sandstone	2470	2500	Big Injun Sandstone
Upper Devonian Sands/silts	2500	3010	sandstone/siltstone
shale/siltstone	3010	3020	Gantz sandstone
Upper Devonian Sands/silts	3020	3560	Upper Devonian sandstones/siltstones
Devonian siltstones/shales	3560	7620	Devonian siltstones/shales
Middlesex shale/silt	7620	7790	Middlesex shale/silt
Burkett shale	7790	7816	Burkett Shale
Geneseo shale	7816	7845	Geneseo shale
Tully Limestone	7845	7898	Tully Limestone
Hamilton shale	7898	7996	Hamilton shale
Marcellus shale	7996	TD	Marcellus shale

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Ticket #:
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Remit to:
Lightning Energy Services
104 Heliport Loop Road
Bridgeport, WV 26330

Job Times				
	On Loc:	Job Start:	Job End:	Off Loc:
Date:	07/07/19	07/07/19	07/07/19	07/07/19
Time:	9:00am	11:30 AM	4:12pm	6:00pm

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan		Well #: 17 H	Well Type: GAS
County:	State: WV	AFE #/API #:	PO #/Permit #:	Well Class:	
Field:		Lease: McClellan	Rig Name/# : northeast rig 8		
Wellbore Information					
Bit Size (Inches): 17.5	Well MD (ft):	Well TVD (ft): 1300	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 24	Weight (lb/ft):	Thread:	Grade:	Total Footage (ft): 58	
Casing/Liner/Tubing					
Size (Inches): 13.375	Weight (lb/ft): 54.5	Thread:	Grade:	Total Footage (ft): 1245	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 476	Max Annulus Pressure (PSI):	Mix Water Temp (F°):		Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 11 bbl	Top Job (bbl): no		
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

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Ticket #: 0

Remit to:
 Lightning Energy Services
 104 Heliport Loop Road
 Bridgeport, WV 26330

Job Times				
	On Loc:	Job Start:	Job End:	Off Loc:
Date:	07/11/19	07/11/19	07/11/19	07/11/19
Time:	9:00am	2:48pm	2:53pm	6:00pm

Customer and Well Information					
Customer: NORTHEAST		Well Name: McClellan		Well #: 17 H	
Well Type: GAS		Well #: 17 H		Well Type: GAS	
County:	State: WV	AFE #/API #: 100383-602	PO #/Permit #:	Well Class:	
Field:		Lease: McClellan	Rig Name/# : northeast rig 8		
Wellbore Information					
Bit Size (Inches): 12.25	Well MD (ft):	Well TVD (ft): 2765	BHST (F°):	BHCT (F°):	Deviation (°):
Drilling Fluid Type:	Drilling Fluid Density (ppg):	Packer Depth (ft):	Treating Down:		
Previous Casing/Liner					
Size (Inches): 13.375	Weight (lb/ft): 54	Thread:	Grade:	Total Footage (ft): 1245	
Casing/Liner/Tubing					
Size (Inches): 9.625	Weight (lb/ft): 40	Thread:	Grade:	Total Footage (ft): 2703	
Job					
Job Type: Intermediate		Connection to Well: YES		Top Plug: YES	
Lift Pressure (PSI): 1546	Max Annulus Pressure (PSI):	Mix Water Temp (F°):		Bottom Plug: No	
Casing/Tubing Secured : YES	Pipe Rotated: No	Cement Return to Surface (bbl): 25	Top Job (bbl): no		
Pipe Reciprocated : No	Circulation Lost: No	Job Completed: YES			

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/29/2020
Job End Date:	6/20/2020
State:	West Virginia
County:	Monongalia
API Number:	47-061-01822-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 17H
Latitude:	39.62172200
Longitude:	-80.27865000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,200
Total Base Water Volume (gal):	23,237,002
Total Base Non Water Volume:	8,349



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	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00000	86.41305	None
Sand (Proppant)	Producers Service Corp	Proppant	Silica Substrate	14808-60-7	100.00000	13.26247	None
StimStream SC-404	Producers Service Corp	Scale Inhibitor	Non-Hazardous substances	Proprietary	85.00000	0.02571	None
			Bis(Hexamethylene Triamine Penta) (BHMT)	34690-00-1	5.00000	0.00151	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	5.00000	0.00151	None
			Citric acid	77-92-9	5.00000	0.00151	None
StimSTREAM FR 9800	Producers Service Corp	Friction Reducer	copolymer of 2-propenamide	Proprietary	30.00000	0.01637	None
			Petroleum Disillate	64742-47-8	20.00000	0.01091	None
			Oleic Acid Diethanolamide	93-83-4	2.00000	0.00109	None
			Alcohols, C12-16, ethoxylated	68551-12-2	2.00000	0.00109	None
			Ammonium chloride ((NH4)Cl)	12125-02-9	1.00000	0.00055	None

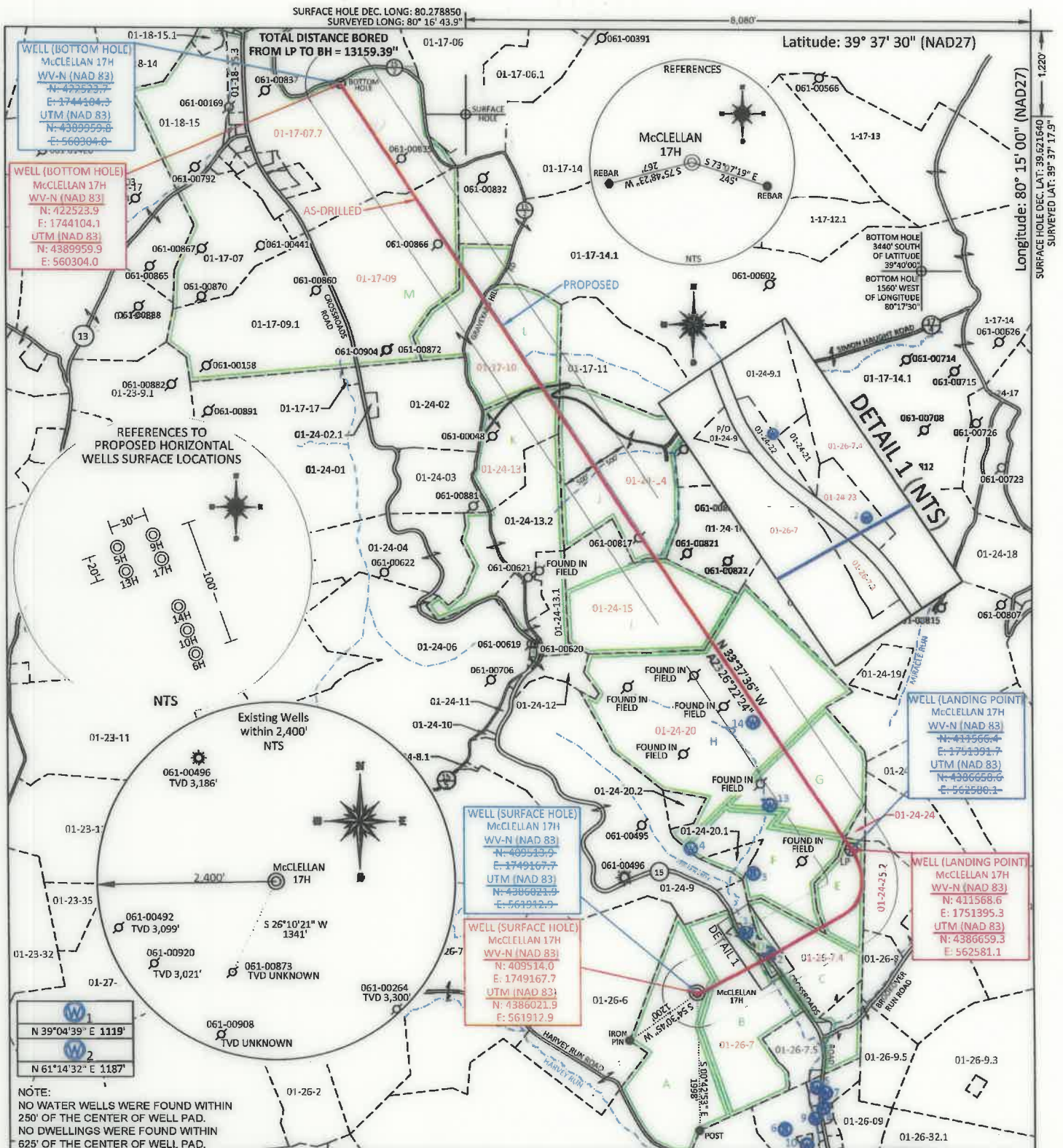
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Clearal 268	Producers Service Corp	Bioicide	Non-Hazardous substances	Proprietary		80.00000	0.01434	None
			Glutaraldehyde	111-30-8		20.00000	0.00359	None
			Quaternary Ammonium Compounds	68424-85-1		3.00000	0.00054	None
			Didecyl dimethyl ammonium chloride	7173-51-5		3.00000	0.00054	None
			Ethanol	64-17-5		1.50000	0.00027	None
7.5% HCL	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0		7.50000	0.01666	None
4N-1	Producers Service Corp	Inhibitor	Acetic acid	64-19-7		90.00000	0.00039	None
			2-Ethylhexanol	104-76-7		10.00000	0.00004	None
			Methanol	67-56-1		10.00000	0.00004	None
			Cocamide Diethanolamine	68603-42-9		5.00000	0.00002	None
			Diethanolamine	111-42-2		1.00000	0.00000	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.								
Other Chemical(s)	Listed Above	See Trade Name(s) List						
			Non-Hazardous substances	Proprietary		85.00000	0.02571	
			Non-Hazardous substances	Proprietary		80.00000	0.01434	
			Petroleum Distillate	64742-47-8		20.00000	0.01091	
			Citric acid	77-92-9		5.00000	0.00151	
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1		5.00000	0.00151	
			Oleic Acid Diethanolamide	93-83-4		2.00000	0.00109	
			Alcohols, C12-16, ethoxylated	68551-12-2		2.00000	0.00109	
			Ammonium chloride ((NH4)Cl)	12125-02-9		1.00000	0.00055	
			Quaternary Ammonium Compounds	68424-85-1		3.00000	0.00054	
			Didecyl dimethyl ammonium chloride	7173-51-5		3.00000	0.00054	
			Ethanol	64-17-5		1.50000	0.00027	
			2-Ethylhexanol	104-76-7		10.00000	0.00004	
			Methanol	67-56-1		10.00000	0.00004	
			Cocamide Diethanolamine	68603-42-9		5.00000	0.00002	
			Diethanolamine	111-42-2		1.00000	0.00000	

* Total Water Volume sources may include fresh water, produced water, and/or recycled water
** Information is based on the maximum potential for concentration and thus the total may be over 100%

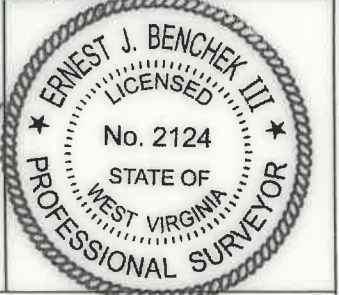
Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

RECEIVED
Office of Oil and Gas
OCT 5 2020
WV Department of Environmental Protection



FILE #: NNE14
 DRAWING #: 2973
 SCALE: PLAT: 1" = 2000'
TRK: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
 Signed: [Signature]
 L.L.S. #2124 : Ernest J. Benchek III



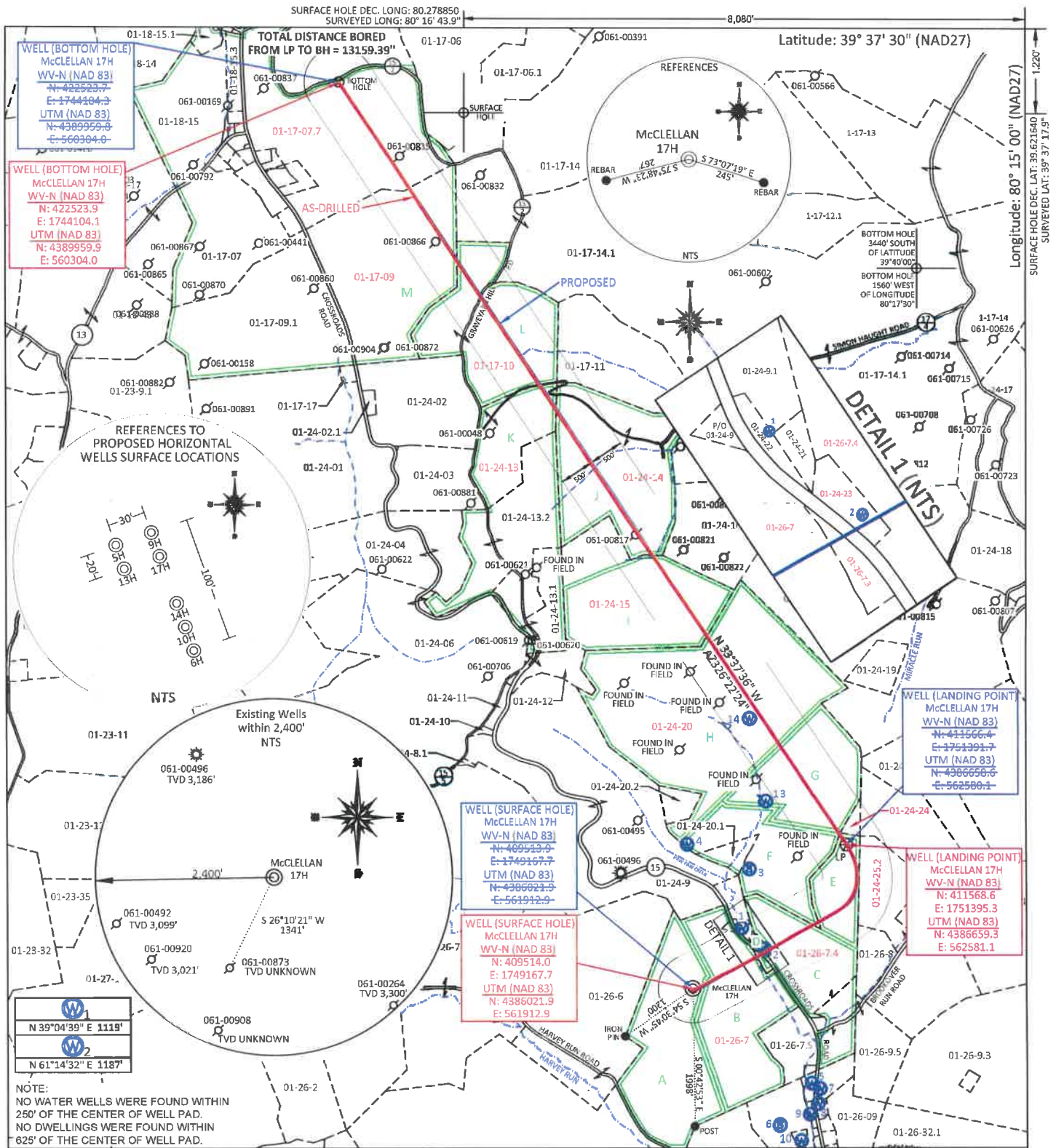
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

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

WATERSHED: UPPER MONONGAHELA AS-BUILT ELEVATION: 1,411.7'
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: MANNINGTON
 SURFACE OWNER: ALYCEMARIE MCCLELLAN & MICHELLE D. MOORE ACREAGE: 877.79 +/-
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al ACREAGE: 129.4 +/-
 LEASE NUMBERS: _____

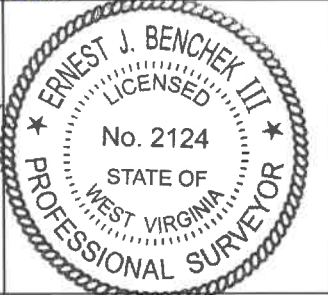
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 8,048' TMD: 23,000'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301



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

DATE: JULY 10, 2020
 OPERATOR'S WELL #: McCLELLAN 17H AS-DRILLED
 API WELL #: 47 61 01822
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,411.7'

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

WATERSHED: UPPER MONONGAHELA
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: MANNINGTON
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