

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

API 47 - 061 - 01885 County Monongalia District Battelle
Quad Mannington Pad Name McClellan Field/Pool Name _____
Farm name McClellan Well Number 4H
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 4386016.2 Easting 561615.1
Landing Point of Curve Northing 4385752.3 Easting 562075.4
Bottom Hole Northing 4382843.3 Easting 564081.2

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 9/17/2021 Date drilling commenced 9/21/2021 Date drilling ceased 11/22/2021
Date completion activities began 3/11/2023 Date completion activities ceased 3/27/2022
Verbal plugging (Y/N) N 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

Reviewed by:

10/06/2023

API 47-061 - 01885 Farm name McClellan Well number 4H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	24"	100'	N		NA	Y
Surface	17-1/2"	13-3/8"	1,435'	N	54.5	NA	Y, 2 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,715'	N	36	NA	Y, 60 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	20,382'	N	20	NA	Y
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	1,230	15.6	1.20	1,471	CTS	8
Coal							
Intermediate 1	Class A	890	15.6	1.19	1,057	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Poz	3,705	14.5	1.16	4,289	2,228'	48
Tubing							

Drillers TD (ft) 20,382' Loggers TD (ft) 20,402'

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 7,695'

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'

Intermediate: 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 _____

McClellan Completion 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

10/06/2023

McClellan 4H 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	3/11/2022	4,676	0	8,983	91	75	7,278	300,360	465
2	3/11/2022	5,461	5,852	8,893	91	53	8,150	391,880	447
3	3/11/2022	5,918	5,908	8,852	92	70	8,138	389,706	446
4	3/11/2022	5,815	5,860	8,810	90	74	8,104	390,008	471
5	3/11/2022	6,156	6,547	8,915	91	72	8,205	389,971	446
6	3/12/2022	5,466	6,574	9,102	92	39	7,979	392,040	444
7	3/11/2022	5,936	6,779	9,235	92	35	8,190	392,340	434
8	3/11/2022	5,995	7,607	9,367	92	35	8,554	389,970	436
9	3/13/2022	5,914	6,595	9,403	92	37	8,084	390,060	445
10	3/13/2022	5,832	7,556	9,254	92	40	8,046	390,000	419
11	3/13/2022	5,581	6,769	9,322	92	35	8,054	390,000	47
12	3/11/2022	5,947	6,832	9,242	92	713	8,156	389,991	428
13	3/11/2022	5,860	8,938	9,162	91	720	8,072	390,063	412
14	3/14/2022	6,071	7,282	9,293	91	716	8,018	389,965	400
15	3/14/2022	5,358	7,324	9,325	92	615	8,149	390,080	525
16	3/14/2022	6,034	7,146	9,401	88	715	8,261	390,006	404
17	3/15/2022	6,264	7,074	9,013	90	698	8,133	389,837	396
18	3/15/2022	6,086	7,910	9,199	92	70	8,104	390,000	392
19	3/15/2022	5,992	8,520	9,512	85	34	8,032	390,000	424
20	3/15/2022	6,073	8,258	9,317	85	32	8,052	389,769	391
21	3/16/2022	6,270	7,762	9,643	90	92	8,117	391,048	404
22	3/16/2022	6,031	7,786	9,216	91	61	8,146	390,000	386
23	3/16/2022	5,807	7,546	9,320	91	14	8,084	389,988	457
24	3/17/2022	5,950	7,518	9,291	91	13	8,549	390,084	604
25	3/17/2022	5,944	7,510	9,313	92	37	7,904	390,000	372
26	3/17/2022	5,523	7,279	9,417	92	25	7,965	390,254	366
27	3/17/2022	5,334	7,264	9,197	91	25	8,039	390,000	375
28	3/18/2022	5,651	6,967	9,216	91	12	7,848	390,000	440
29	3/18/2022	5,546	7,354	9,456	91	64	8,043	390,000	357
30	3/18/2022	5,546	7,226	9,096	92	78	8,414	390,000	355
31	3/18/2022	5,206	6,742	9,081	92	57	8,197	390,000	341
32	3/19/2022	5,566	7,569	9,043	92	58	8,360	390,000	336
33	3/19/2022	5,636	7,407	9,055	92	24	8,033	390,000	331
34	3/19/2022	5,408	7,268	9,091	92	12	8,034	390,000	330
35	3/20/2022	5,408	7,589	9,073	92	22	7,950	390,000	328
36	3/20/2022	5,663	7,536	9,237	89	58	7,968	390,000	331
37	3/20/2022	5,149	7,199	9,163	92	50	7,940	390,000	332
38	3/20/2022	5,248	7,117	8,932	92	21	8,011	390,000	324
39	3/21/2022	5,468	7,021	8,976	92	31	7,941	390,000	309
40	3/21/2022	5,570	7,304	9,066	91	53	7,974	390,000	307
41	3/21/2022	5,265	7,207	9,230	91	86	8,039	390,000	298
42	3/21/2022	5,616	5,435	9,053	92	49	7,930	390,000	300
43	3/22/2022	5,341	4,805	9,118	92	36	8,717	390,000	291
44	3/22/2022	5,659	7,168	9,067	90	63	8,103	390,000	293
45	3/22/2022	5,934	7,116	8,950	92	42	7,979	390,094	289

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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)
46	3/22/2022	5,510	7,128	8,744	92	64	7,736	389,926	285
47	3/23/2022	5,010	7,584	8,802	92	29	7,718	390,000	277
48	3/23/2022	5,708	8,345	8,726	92	68	7,919	390,000	276
49	3/23/2022	6,109	7,184	8,951	92	52	7,964	389,728	272
50	3/23/2022	5,832	7,302	9,447	92	23	8,621	390,360	1,762
51	3/23/2022	5,205	7,609	9,020	92	7	9,753	390,000	265
52	3/23/2022	5,532	8,110	8,935	92	37	8,114	390,000	265
53	3/24/2022	6,699	7,460	8,983	92	61	7,926	390,064	261
54	3/24/2022	5,361	7,691	8,787	92	68	7,928	390,055	257
55	3/24/2022	6,254	6,852	8,708	92	24	7,915	389,728	249
56	3/24/2022	4,964	7,093	8,551	92	25	7,915	390,000	251
57	3/25/2022	5,625	7,357	8,497	92	36	8,098	390,000	245
58	3/25/2022	5,954	6,991	8,436	92	83	7,966	390,343	236
59	3/25/2022	5,749	7,763	8,492	92	63	7,990	389,721	233
60	3/25/2022	6,054	7,224	8,549	92	65	7,878	389,775	226
61	3/25/2022	5,658	7,369	8,655	92	43	7,976	390,000	226
62	3/26/2022	5,451	7,163	8,486	92	75	7,886	390,000	228
63	3/26/2022	5,262	7,177	8,549	92	82	7,928	390,094	219
64	3/26/2022	5,662	6,780	8,576	91	205	8,006	389,428	209
65	3/26/2022	5,099	6,920	8,400	92	33	7,732	390,000	212
66	3/25/2022	5,188	7,211	8,478	93	91	7,966	390,000	256
67	3/27/2022	5,172	7,933	8,388	92	29	7,977	390,000	206
68	3/27/2022	5,546	7,956	8,345	92	88	7,921	389,792	197
69	3/27/2022	5,706	7,532	8,282	91	77	8,027	389,744	197

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McClellan 4H
Perforation Report

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	3/11/2022	0	0	20,272
2	3/11/2022	40	20,233	20,095
3	3/11/2022	40	20,059	19,921
4	3/11/2022	40	19,884	19,747
5	3/11/2022	40	19,710	19,572
6	3/12/2022	40	19,533	19,398
7	3/11/2022	40	19,361	19,223
8	3/11/2022	40	19,186	19,049
9	3/13/2022	40	19,012	18,874
10	3/13/2022	40	18,837	18,700
11	3/13/2022	40	18,663	18,526
12	3/11/2022	40	18,489	18,351
13	3/11/2022	40	18,314	18,177
14	3/14/2022	40	18,140	18,002
15	3/14/2022	40	17,965	17,828
16	3/14/2022	40	17,791	17,653
17	3/15/2022	40	17,616	17,479
18	3/15/2022	40	17,442	17,304
19	3/15/2022	40	17,268	17,132
20	3/15/2022	40	17,093	19,956
21	3/16/2022	40	16,919	16,781
22	3/16/2022	40	16,744	16,607
23	3/16/2022	40	16,570	16,432
24	3/17/2022	40	16,393	16,258
25	3/17/2022	40	16,221	16,083
26	3/17/2022	40	16,046	15,909
27	3/17/2022	40	15,872	15,734
28	3/18/2022	40	15,698	15,560
29	3/18/2022	40	15,523	15,386
30	3/18/2022	40	15,349	15,211
31	3/18/2022	40	15,174	15,037
32	3/19/2022	40	15,000	14,862
33	3/19/2022	40	14,825	14,688
34	3/19/2022	40	14,651	14,513
35	3/20/2022	40	14,476	14,339
36	3/20/2022	40	14,302	14,165
37	3/20/2022	40	14,128	13,990
38	3/20/2022	40	13,953	13,816
39	3/21/2022	40	13,779	13,641
40	3/21/2022	40	13,604	13,467
41	3/21/2022	40	13,430	13,292
42	3/21/2022	40	13,255	13,118
43	3/22/2022	40	13,081	12,943
44	3/22/2022	40	12,907	12,769
45	3/22/2022	40	12,732	12,595
46	3/22/2022	40	12,558	12,420

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Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
47	3/23/2022	40	12,383	12,246
48	3/23/2022	40	12,209	12,071
49	3/23/2022	40	12,034	11,897
50	3/23/2022	40	11,860	11,722
51	3/23/2022	40	11,685	11,548
52	3/23/2022	40	11,511	11,373
53	3/24/2022	40	11,337	11,199
54	3/24/2022	40	11,162	11,025
55	3/24/2022	40	10,988	10,850
56	3/24/2022	40	10,813	10,676
57	3/25/2022	40	10,639	10,501
58	3/25/2022	40	10,464	10,327
59	3/25/2022	40	10,290	10,152
60	3/25/2022	40	10,115	9,978
61	3/25/2022	40	9,941	9,803
62	3/26/2022	40	9,767	9,629
63	3/26/2022	40	9,592	9,455
64	3/26/2022	40	9,418	9,280
65	3/26/2022	40	9,243	9,106
66	3/25/2022	40	9,069	8,931
67	3/27/2022	40	8,894	8,757
68	3/27/2022	40	8,720	8,582
69	3/27/2022	40	8,546	8,408

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Cement Job Log



NexTier Completion Solutions
3990 Rogerdale Rd., Houston, TX 77042
(713)325-6000

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	11-Nov-21	Serv. Supervisor:	Steven Long
Cust. Rep.:	TROY	Ticket #:	BPA-2111-0007	Serv. Center:	Black Lick - 1571
Well Name:	McClellan 4H	API Well #:	47-061-01885	County:	Monongalia State: WV
Well Type:	GAS	Rig:	PATTERSON 277	Type of Job:	CM-INTER. CASING

Plugs		Casing Hardware		Physical Slurry Properties							
Materials Furnished by NexTier				Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Fluid Volume (cuft)	Mix Water (bbls)
6% Gel Spacer		+20.0 PPB NEX-020			8.7		4.62	33.66	25.00	-	
15.6 lb/gal Cement		100% NCM-910 +1.0% NAC-110		890	15.6	30%	1.19	5.24	188.29	1,057.23	111
Fresh Water Displacement					8.33			-	205.65	-	
0								-		-	
								-		-	
								-		-	
								-		-	
								-		-	
								-		-	
TOP OUT CEMENT		100% NCM-910		850	15.6						

Displacement Chemicals:

OPEN HOLE DATA					TUBULAR DATA							
12.25 In. O.H. 1,438 to 2,700 ft					9.625 In. 36#, (0 to 2,700 ft)							
Ambient Temp.	Bulk Temp.	Slurry 1 Temp.	Slurry 2 Temp.	Slurry 3 Temp.	Slurry 4 Temp.	SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
40.0 °F		65.0 °F	83.0 °F	64.0 °F		9.625 36#	BTC	2715	J-55	8.921	3520	2020

PREVIOUS CASING DATA		PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
13.375 In. 54.5# (0 to 1,438 ft)		TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
						2715	2670		835-838

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS	CSO LIFT	MAX PRESS	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY	(psi)	(psi)	(psi)				
H2O	8.3 ppg	206.4 bbl	H2O	8.3 ppg	1008	1023	2800	< 200	7	47.0 °F	1600
Bumped Plug	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)
No	310.00		267.00	60.00	-	No	1,800.00	No	21.00	No	35

Comments/Additional Details:

Steven Long
 Service Supervisor

11-Nov-21
 Date

10/06/2023

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	3/11/2022
Job End Date:	3/27/2022
State:	West Virginia
County:	Monongalia
API Number:	47-061-01885-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 4H
Latitude:	39.62167800
Longitude:	-80.27862900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,089
Total Base Water Volume (gal):	23,389,968
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Northeast Natural Energy	Carrier/Base Fluid					
Sand (100 Mesh Proppant)	ProFrac	Proppant	Water	7732-18-5	100.00000	87.60497	None
Sand (40/70 White Proppant)	ProFrac	Proppant	Silica Substrate	14808-60-7	100.00000	9.64007	None
Hydrochloric Acid (7.5%)	CNR	Acidizing	Silica Substrate	14808-60-7	100.00000	2.40011	None
StimSTREAM SC 405	Chemstream	Scale Control	Water	7732-18-5	85.00000	0.19211	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.08362	None
			Non-Hazardous Substances	Proprietary	70.00000	0.02860	None
			Citric Acid	77-92-9	10.00000	0.00380	None
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00380	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00380	None

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Clearal 268	Chemstream	Biocide	Non-Hazardous Substances	Proprietary	80.00000	0.02134	None
			Glutaraldehyde	111-30-8	20.00000	0.00533	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00080	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00080	None
			Ethanol	64-17-5	1.50000	0.00040	None
StimSTREAM FR 9800	Chemstream	Friction Reducer	Alkanes, C16-20-iso-	90622-59-6	25.00000	0.00603	None
			Butene, homopolymer	9003-29-6	25.00000	0.00603	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00072	None
StimSTREAM FR 2800	Chemstream	Friction Reducer	Distillates (petroleum), hydrotreated light	64742-47-8	25.00000	0.00967	None
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00193	None
ProHib 100	CNR	Acid Inhibitor	2-Butoxyethanol	111-76-2	60.00000	0.00048	None
			Proprietary material	Proprietary	30.00000	0.00024	None
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00016	None
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00008	None
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00008	None
ProFE 105	CNR	Iron Control	Citric Acid	77-92-9	20.00000	0.00011	None
			Acetic Acid	64-19-7	5.00000	0.00003	None
Ingredients shown above are subject to 29 CFR 1910.1200(l) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	85.00000	0.19211	
			Non-Hazardous Substances	Proprietary	70.00000	0.02660	
			Non-Hazardous Substances	Proprietary	80.00000	0.02134	
			Butene, homopolymer	9003-29-6	25.00000	0.00603	
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00380	
			Citric Acid	77-92-9	10.00000	0.00380	
			Alcohols, C11-14-iso, C13-rich, ethoxylated	78330-21-9	5.00000	0.00193	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00080	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00080	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00072	
			Ethanol	64-17-5	1.50000	0.00040	
			Proprietary material	Proprietary	30.00000	0.00024	
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00016	
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00008	
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00008	

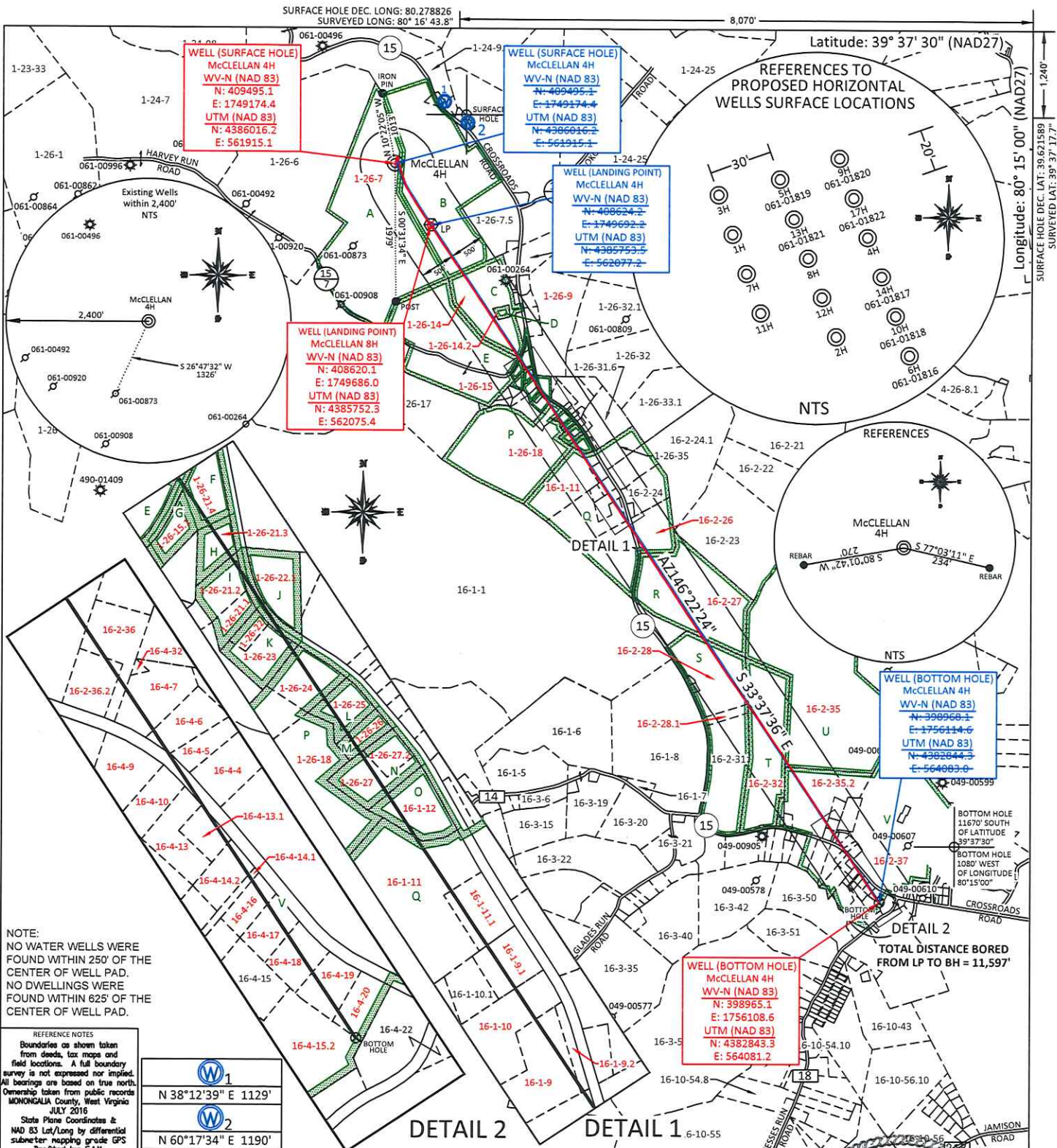
10/06/2023

	Acetic Acid	64-19-7	5.00000	0.00003
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* 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(f) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



FILE #: NNE14
 DRAWING #: 2964
 SCALE: PLAT: 1" = 2000'
 TICK: 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
 COUNTY/DISTRICT: MONONGALIA / BATTELLE
 SURFACE OWNER: KLONDIKE REAL ESTATE PARTNERSHIP
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al
 LEASE NUMBERS:

DATE: SEPTEMBER 28, 2023
 OPERATOR'S WELL #: McCLELLAN 4H AS-DRILLED
 API WELL #: 47 61
 STATE COUNTY PERMIT
 AS-BUILT ELEVATION: 1,411.7'

QUADRANGLE: MANNINGTON
 ACREAGE: 609.66 +/-
 ACREAGE: 129.4 +/-

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
 DRILLED DEPTH: TVD: 8,136' TMD: 20,402'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

10/06/2023

PROPERTY OWNER INDEX	
1-26-7	KLONDIKE REAL ESTATE PARTNERSHIP
1-26-14	KEVIN D. & MARLA J. AMMONS
1-26-15	KELSI L. & PRESTON K. WILSON
1-26-14.2	KEVIN D. & MARLA J. AMMONS
1-26-21.4	DONALD R. & JUDY A. PETHTEL
1-26-15.1	MICHAEL TODD WRIGHT
1-26-21.3	DONALD R. & JUDY A. PETHTEL
1-26-22.1	GARY A. & TAMMY L. NICHOLSON
1-26-21.2	JERRY & JANICE SUE FLUHARTY
1-26-21.1	BETTY LOU FLUHARTY
1-26-22	RANDY L. & TRINA R. TENNANT
1-26-24	STEVEN T. & MISTY R. NICHOLSON
1-26-25	SUSAN TENNANT & DELAS STUZEN
1-26-26	SUSAN TENNANT & DELAS STUZEN
1-26-27.2	BREDNA HARDESTY & FRANK HENSEY
1-26-27	MICHAEL J. GLENN
1-26-9	GARY A & TAMMY L NICHOLSON
1-26-18	CHARLENE CHAPMAN & DALE REISING
1-26-23	RANDY L & TRINA R TENNANT
16-2-37	REKAB LLC
16-2-32	DOROTHY GRIEGER
16-1-12	DOUGLAS M. JONES
16-1-11	MARSHA E. & BRADLEY D. WOLFE
16-1-11.1	MARSHA E. & BRADLEY D. WOLFE
16-1-9.1	ONEITA A. OPYOKE
16-1-9.2	VIRGINIA T. HULL
16-1-9	ZACHARY R. & JACQUELINE E. PHILLIPS
16-1-10	ZACHARY R. & JACQUELINE E. PHILLIPS
16-2-26	L. B. UNDERWOOD EST
16-2-27	B. A. & L. A. AMMONS
16-2-35	REKAB LLC
16-2-28	CONSOLIDATION COAL COMPANY
16-2-28.1	CONSOLIDATION COAL COMPANY
16-2-35.2	JOHN & SHARON TIANO
16-2-36.2	LACK LOWE
16-4-7	JACK E. & ROWENA LOWE
16-4-32	JACK E. & ROWENA LOWE
16-4-6	ROBERT D. & NORMA J. HOOD
16-2-36	SANDRA & MICHAEL LAYMAN
16-4-5	BETHANY L RETTON
16-4-9	MARILYN S CHISLER
16-4-10	MARILYN S CHISLER
16-4-13	STEPHEN L CHISLER
16-4-14.2	STANLEY T HAUGHT Jr & RHONA L HAUGHT
16-4-13.1	BDW MANAGEMENT INC
16-4-14.1	FAIRVIEW FURNACE & SHEET METAL INC
16-4-16	SHARON K HOUGHTON DELMAS
16-4-17	TIMOTHY L OR SHERRY L GUMP
16-4-18	NORMA J & ROBERT L YOST
16-4-4	JAMES L & CATHY A HARTZELL
16-4-20	GARRET L KELLEY
16-4-19	DELORES L WHITE
16-4-15.2	BENNETT E. & CATHIE S. HAUGHT

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B	WV-061-000146-001
	WV-061-005656-003
C	WV-061-004381-001
D	WV-061-004381-002
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F	WV-061-004793-039
G	WV-061-004381-001
H	WV-061-004560-050
I	WV-061-004793-039
J	WV-061-005120-001
K	WV-061-004560-050
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M	WV-061-005106-001
N	WV-061-005106-001
O	WV-061-004734-001
P	WV-061-004793-039
Q	WV-061-005509-006
R	WV-049-004233-047
S	WV-061-000146-001
T	WV-049-005251-000
U	WV-049-005680-000
V	WV-049-005680-000

10/06/2023

FILE #: NEE14

DRAWING #: 2964

SCALE: N/A

DATE: SEPTEMBER 28, 2023

OPERATOR'S WELL #: McCLELLAN 4H

API WELL #: 47 61
STATE COUNTY PERMIT