

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

API 47 - 061 - 01886 County Monongalia District Battelle  
Quad Mannington Pad Name McClellan Field/Pool Name \_\_\_\_\_  
Farm name McClellan Well Number 7H  
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 4386010.8 Easting 561897.8  
Landing Point of Curve Northing 4385706.7 Easting 561199.3  
Bottom Hole Northing 4389102.6 Easting 558860.9

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 - 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 2/22/2022 Date drilling ceased 9/21/2022  
Date completion activities began 12/15/22 Date completion activities ceased 1/6/23  
Verbal plugging (Y/N) NA Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

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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*[Signature]*  
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11:51 AM 2024

**APPROVED**

API 47-061 - 01886 Farm name McClellan Well number 7H

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	
Surface	17-1/2"	13-3/8"	1,456'	N	54.5	NA	Y, 48 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,716'	N	40	NA	Y, 18 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	22,408'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	4,500 PSI Grout						48
Surface	Class A + 2%	1,240	15.6	1.19	1,472	CTS	8
Coal							
Intermediate 1	Class A + 1%	915	15.6	1.18	1,083	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Class A + Additives	4,530	14.5	1.16	5,245	1,252	48
Tubing							

Drillers TD (ft) 22,379' Loggers TD (ft) 22,349'  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 7,597'

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

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WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 061 - 01886 Farm name McClellan Well number 7H

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	See attached				

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	See	Attached						

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Please insert additional pages as applicable.

WR-35  
 Rev. 8/23/13

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PRODUCING FORMATION(S)	DEPTHS			
Marcellus	8,082'	TVD	22,379'	MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole 2888 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 6169 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

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

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Please insert additional pages as applicable.

Drilling Contractor Patterson UTI  
 Address 4000 Town Center Blvd, Suite 240 City Canonsburg State PA Zip 15317

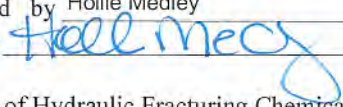
Logging Company Baker Hughes  
 Address 837 Phillippi Pike City Clarksburg State WV Zip 26301

Cementing Company NextTier  
 Address 4000 Town Center Blvd City Canonsburg State PA Zip 15317

Stimulating Company ProFrac  
 Address 800 Mountain View Drive City Smithfield State PA Zip 15478

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Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422  
 Signature  Title Regulatory Manager Date 1/17/2024

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

02/23/2024

**McClellan 7H**  
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	12/15/2022	5,814		8,882	87	480	8,782	300,490	687
2	12/15/2022	5,131	6,035	9,362	93	100	8,839	390,000	573
3	12/16/2022	5,783	5,775	8,868	79	30	8,511	390,000	589
4	12/16/2022	6,228	6,286	8,573	85	288	8,917	355,290	550
5	12/16/2022	5,654	7,298	9,230	81	21	8,482	390,880	539
6	12/16/2022	5,842	5,668	9,590	91	167	8,861	390,000	407
7	12/17/2022	5,536	6,720	9,372	87	51	8,860	390,000	519
8	12/17/2022	5,783	6,914	9,016	80	59	8,351	389,740	514
9	12/17/2022	5,736	6,783	9,198	84	32	8,437	390,160	515
10	12/17/2022	5,816	6,883	9,150	89	49	8,616	390,000	517
11	12/18/2022	5,351	7,893	9,339	89	56	8,599	390,000	490
12	12/18/2022	6,296	7,495	9,263	84	54	8,405	389,108	501
13	12/18/2022	5,551	6,828	9,295	85	26	8,392	390,020	488
14	12/18/2022	5,867	6,438	9,542	91	76	9,058	390,000	514
15	12/19/2022	6,000	6,961	9,435	89	76	8,853	390,000	612
16	12/19/2022	6,019	6,922	9,225	84	53	8,668	395,280	492
17	12/19/2022	6,272	6,701	9,074	85	53	8,377	388,560	489
18	12/19/2022	5,762	7,247	9,207	87	117	8,718	388,720	479
19	12/19/2022	5,867	7,451	9,102	87	89	8,946	390,000	482
20	12/20/2022	6,437	7,596	9,268	86	86	8,573	387,580	477
21	12/20/2022	6,629	7,196	9,270	84	44	8,340	389,082	469
22	12/20/2022	6,548	7,681	9,189	84	41	8,347	389,640	467
23	12/20/2022	6,029	7,860	9,320	88	115	8,459	388,236	454
24	12/21/2022	5,943	7,671	8,940	87	92	8,595	388,878	456
25	12/21/2022	5,753	7,969	9,225	82	49	8,826	383,720	457
26	12/21/2022	5,860	7,930	9,265	82	29	8,441	384,690	452
27	12/21/2022	5,750	8,022	9,274	89	44	8,460	390,341	446
28	12/22/2022	6,098	8,177	9,305	88	43	8,724	388,226	479
29	12/22/2022	5,707	7,997	9,491	84	83	8,603	389,240	444
30	12/22/2022	5,745	8,455	9,308	79	89	8,209	388,340	434
31	12/22/2022	5,960	8,713	9,299	80	48	8,373	388,180	432
32	12/22/2022	6,223	8,189	9,156	85	46	8,079	392,312	431
33	12/23/2022	5,790	8,073	9,209	80	49	8,327	391,480	433
34	12/25/2022	5,669	8,322	9,049	77	111	8,899	389,170	418
35	12/26/2022	5,968	7,143	9,240	89	52	8,564	390,658	418
36	12/27/2022	6,155	7,990	9,226	86	33	8,458	391,168	418
37	12/27/2022	6,277	8,115	9,269	79	32	8,491	387,600	415
38	12/27/2022	6,447	4,270	9,297	85	67	8,902	389,800	375
39	12/27/2022	5,694	7,759	9,182	89	74	8,678	390,574	395
40	12/28/2022	5,940	6,924	9,342	86	32	8,427	392,338	402
41	12/28/2022	5,588	7,842	9,213	82	49	8,416	389,893	355

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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)
42	12/28/2022	5,993	9,180	9,259	86	106	8,486	389,960	350
43	12/28/2022	5,978	7,509	9,197	90	24	8,248	391,075	385
44	12/29/2022	5,929	7,929	9,169	92	43	8,906	390,181	391
45	12/29/2022	5,582	7,500	9,225	85	38	8,612	391,200	350
46	12/29/2022	5,872	9,024	9,113	87	55	8,621	392,480	340
47	12/29/2022	5,526	7,942	8,958	83	51	8,395	392,680	335
48	12/29/2022	5,708	7,581	9,142	84	30	8,282	391,817	376
49	12/30/2022	5,618	7,547	9,277	88	26	8,619	390,000	325
50	12/30/2022	5,798	7,097	9,017	87	90	8,270	388,680	320
51	12/30/2022	5,747	7,513	8,956	87	71	8,611	387,640	320
52	12/30/2022	5,866	7,997	9,075	88	41	8,691	390,379	347
53	12/31/2022	5,871	7,730	8,965	86	32	8,293	390,931	350
54	12/31/2022	6,223	7,684	8,857	86	70	8,502	388,660	300
55	12/31/2022	5,760	7,447	8,719	86	308	8,174	390,300	295
56	12/31/2022	6,027	7,316	8,666	86	21	8,535	391,051	348
57	1/1/2023	5,777	6,916	8,700	91	47	9,016	389,244	324
58	1/1/2023	5,826	7,483	8,770	90	36	8,584	390,434	333
59	1/1/2023	5,938	7,329	8,692	88	120	8,433	393,300	315
60	1/1/2023	6,435	8,576	8,699	89	54	8,419	393,347	328
61	1/1/2023	6,360	7,246	8,602	89	62	8,444	389,947	324
62	1/2/2023	5,866	8,164	8,642	89	73	8,402	391,696	312
63	1/2/2023	6,070	7,283	8,321	88	103	8,378	389,102	305
64	1/2/2023	5,833	7,192	8,331	89	161	8,198	390,220	275
65	1/22/2023	6,212	8,230	8,261	90	217	8,423	391,653	315
66	1/2/2023	5,819	6,782	8,121	89	61	8,282	390,701	293
67	1/3/2023	6,007	6,438	7,923	89	16	8,150	389,960	290
68	1/3/2023	6,121	7,313	8,108	89	79	8,270	390,920	291
69	1/4/2023	5,762	7,543	8,267	88	28	8,209	391,060	287
70	1/4/2023	5,806	7,220	8,347	89	36	8,226	390,100	275
71	1/4/2023	5,961	7,996	8,249	90	91	8,470	389,920	250
72	1/4/2023	6,590	7,998	8,346	90	133	8,273	390,580	276
73	1/5/2023	6,148	7,043	8,269	89	68	8,069	389,800	272
74	1/5/2023	5,784	7,389	8,020	89	47	8,487	385,200	270
75	1/5/2023	5,821	7,515	8,204	90	81	8,635	388,860	265
76	1/5/2023	6,336	7,653	8,219	90	52	7,902	390,760	235
77	1/5/2023	5,937	7,373	8,291	90	52	8,245	390,160	257
78	1/6/2023	5,897	7,473	8,396	89	71	8,301	391,080	252
79	1/6/2023	5,843	7,784	8,026	90	47	8,153	386,009	215

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**McClellan 7H**  
Perforation Report

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	12/15/2022	40		22,299
2	12/15/2022	40	22,261	22,123
3	12/16/2022	40	22,086	21,947
4	12/16/2022	40	21,910	21,772
5	12/16/2022	40	21,735	21,597
6	12/16/2022	40	21,560	21,422
7	12/17/2022	40	21,385	21,247
8	12/17/2022	40	21,210	21,072
9	12/17/2022	40	21,035	20,897
10	12/17/2022	40	20,860	20,722
11	12/18/2022	40	20,685	20,547
12	12/18/2022	40	20,510	20,372
13	12/18/2022	40	20,335	20,197
14	12/18/2022	40	20,160	20,022
15	12/19/2022	40	19,985	19,847
16	12/19/2022	40	19,810	19,672
17	12/19/2022	40	19,635	19,496
18	12/19/2022	40	19,459	19,321
19	12/19/2022	40	19,284	19,146
20	12/20/2022	40	19,109	18,971
21	12/20/2022	40	18,934	18,796
22	12/20/2022	40	18,759	18,621
23	12/20/2022	40	18,584	18,446
24	12/21/2022	40	18,409	18,271
25	12/21/2022	40	18,234	18,096
26	12/21/2022	40	18,059	17,921
27	12/21/2022	40	17,884	17,746
28	12/22/2022	40	17,709	17,571
29	12/22/2022	40	17,534	17,396
30	12/22/2022	40	17,359	17,221
31	12/22/2022	40	17,184	17,046
32	12/22/2022	40	17,008	16,870
33	12/23/2022	40	16,833	16,695
34	12/25/2022	40	16,658	16,520
35	12/26/2022	40	16,483	16,345
36	12/27/2022	40	16,308	16,170
37	12/27/2022	40	16,133	15,995
38	12/27/2022	40	15,958	15,820
39	12/27/2022	40	15,783	15,645
40	12/28/2022	40	15,608	15,470
41	12/28/2022	40	15,433	15,295
42	12/28/2022	40	15,258	15,120
43	12/28/2022	40	15,083	14,945
44	12/29/2022	40	14,908	14,770
45	12/29/2022	40	14,733	14,595
46	12/29/2022	40	14,558	14,419
47	12/29/2022	40	14,382	14,244

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Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	12/29/2022	40	14,207	14,069
49	12/30/2022	40	14,032	13,894
50	12/30/2022	40	13,857	13,719
51	12/30/2022	40	13,682	13,544
52	12/30/2022	40	13,507	13,369
53	12/31/2022	40	13,332	13,194
54	12/31/2022	40	13,157	13,019
55	12/31/2022	40	12,982	12,844
56	12/31/2022	40	12,807	12,669
57	1/1/2023	40	12,632	12,494
58	1/1/2023	40	12,457	12,319
59	1/1/2023	40	12,282	12,144
60	1/1/2023	40	12,107	11,968
61	1/1/2023	40	11,931	11,793
62	1/2/2023	40	11,756	11,618
63	1/2/2023	40	11,581	11,443
64	1/2/2023	40	11,406	11,268
65	1/22/2023	40	11,231	11,093
66	1/2/2023	40	11,056	10,918
67	1/3/2023	40	10,881	10,743
68	1/3/2023	40	10,706	10,568
69	1/4/2023	40	10,531	10,393
70	1/4/2023	40	10,356	10,218
71	1/4/2023	40	10,181	10,043
72	1/4/2023	40	10,006	9,868
73	1/5/2023	40	9,831	9,693
74	1/5/2023	40	9,656	9,517
75	1/5/2023	40	9,480	9,342
76	1/5/2023	40	9,305	9,167
77	1/5/2023	40	9,130	8,992
78	1/6/2023	40	8,955	8,817
79	1/6/2023	40	8,780	8,642

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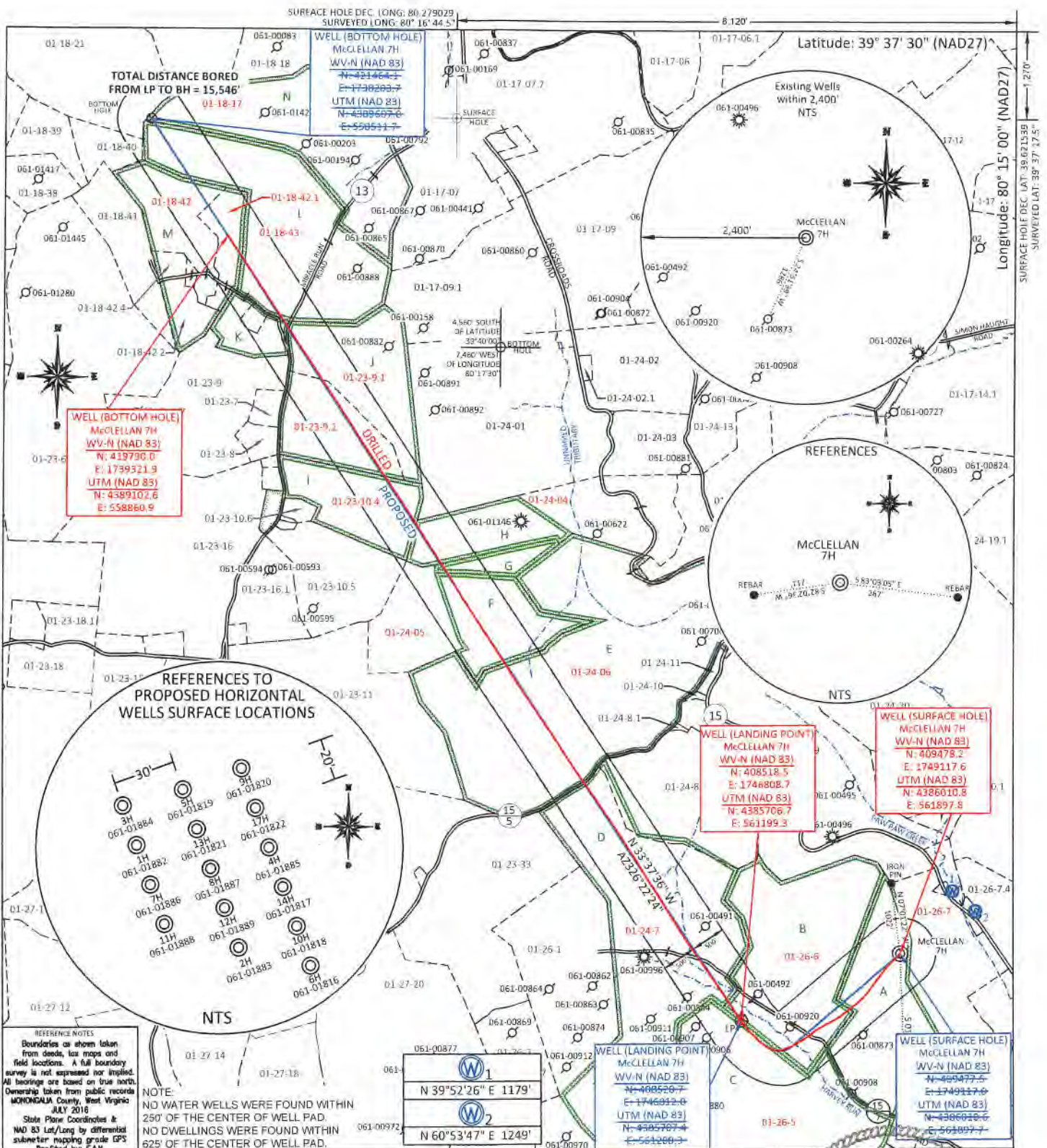
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**McClellan Completion lithology**

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

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FILE #: NNE14  
 DRAWING #: 2997  
 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

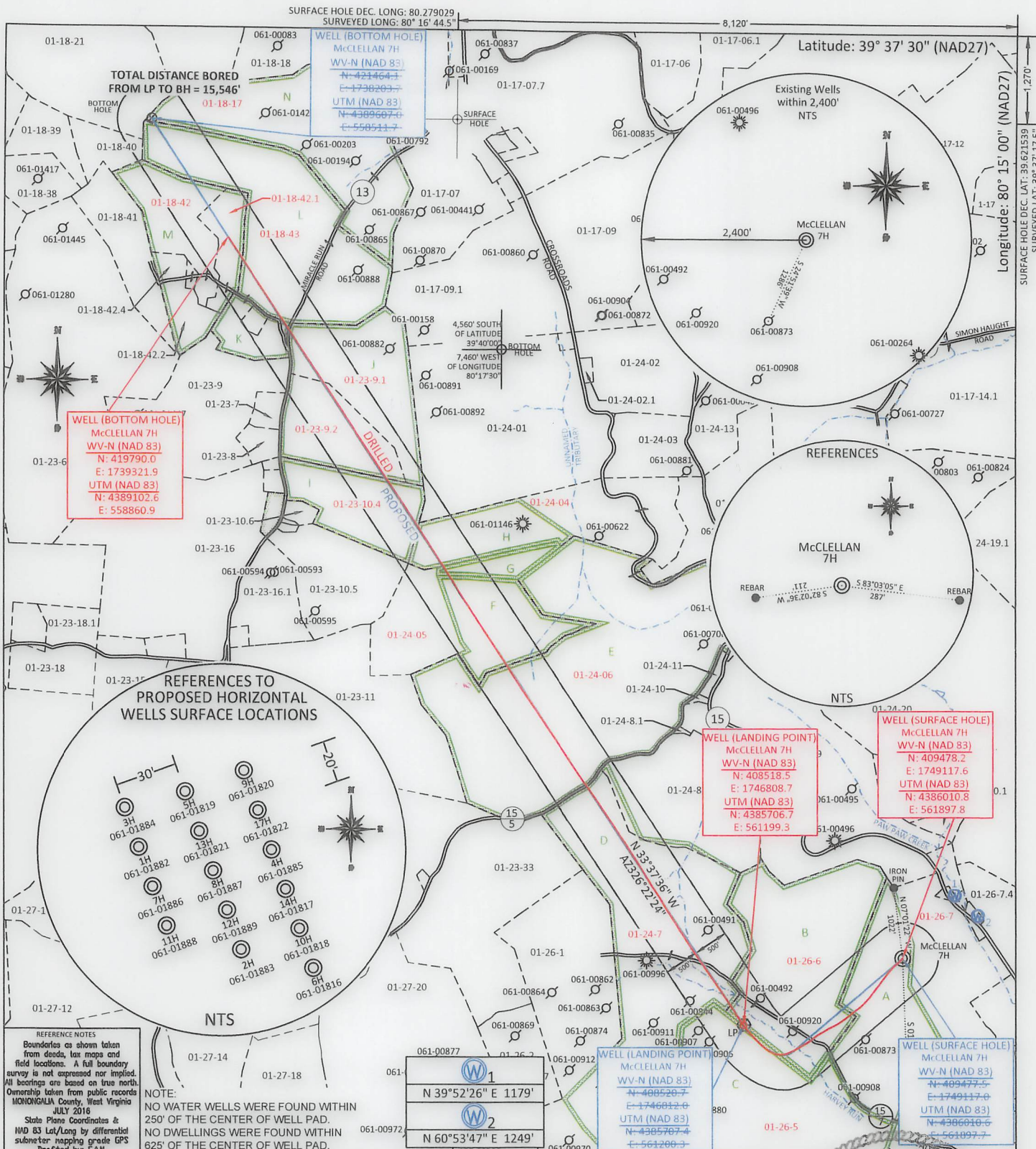
DATE: SEPTEMBER 28, 2023  
 OPERATOR'S WELL #: McCLELLAN 7H AS-DRILLED  
 API WELL #: 47 61 01886  
 STATE COUNTY PERMIT  
 AS-BUILT ELEVATION: 1,411.7'

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

WATERSHED: UPPER MONONGAHELA  
 COUNTY/DISTRICT: MONONGALIA / BATTELLE QUADRANGLE: MANNINGTON  
 SURFACE OWNER: KLONDIKE REAL ESTATE PARTNERSHIP ACREAGE: 1,292.0 +/-  
 OIL & GAS ROYALTY OWNER: Barbara June Sutton, et al ACREAGE: 129.4 **02/23/2024**  
 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 DRILLED DEPTH: TVD: 8,082' TMD: 23,379'  
 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



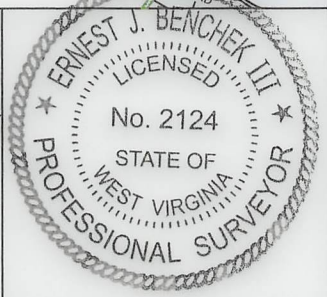
**REFERENCE NOTES**  
 Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia JULY 2016  
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS drafted by EAM.

**NOTE:**  
 NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.  
 NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

	1	N 39°52'26\" E 1179'
	2	N 60°53'47\" E 1249'

FILE #: NNE14  
 DRAWING #: 2997  
 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:   
 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

DATE: SEPTEMBER 28, 2023  
 OPERATOR'S WELL #: McCLELLAN 7H AS-DRILLED  
 API WELL #: 47 61 01886  
 STATE COUNTY PERMIT

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: \_\_\_\_\_

AS-BUILT ELEVATION: 1,411.7'  
 QUADRANGLE: MANNINGTON  
 ACREAGE: 1,292.0 +/-  
 ACREAGE: 129.4 02/23/2024

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  
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DRILLED DEPTH: TVD: 8,082' TMD: 23,379'  
 DESIGNATED AGENT: JOHN ADAMS  
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200  
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
1-26-7	KLONDIKE REAL ESTATE PARTNERSHIP
1-26-6	ROBERT G SANTEE ESTATE
1-26-5	CONSOL MINING COMPANY LLC
1-24-7	CNX LAND LLC
1-24-6	ALLEGHENY FORESTLANDS LLC
1-24-5	THERESA TUTTLE & FRANCIS GREGORY SWISHER
1-24-4	THERESA TUTTLE & FRANCIS GREGORY SWISHER
1-23-10.4	DONALD & JANICE WHITE
1-23-9.2	MICHAEL A & KAREN J HORNYAK
1-23-9.1	MICHAEL A & KAREN J HORNYAK
1-18-43	BETTY J MARTINO
1-18-42.1	THADDEUS J SAVINO
1-18-42	RAYMOND & MARY BENNER
1-18-17	ERP FEDERAL MINING COMPLEX LLC

LEASE INDEX			
A	WV-061-004172-011	I	WV-061-004369-001
B	WV-061-004173-066	J	WV-061-005769-001
C	WV-061-005769-001	K	WV-061-005769-001
D	WV-061-004002-005	L	WV-061-003729-001
E	WV-061-005933-001	M	WV-061-004310-007
F	WV-061-004332-001	N	WV-061-003767-004
G	WV-061-004860-020		
H	WV-061-004227-002		

02/23/2024

FILE #: NEE14

DRAWING #: 2997

SCALE: N/A

DATE: SEPTEMBER 28, 2023

OPERATOR'S WELL #: McCLELLAN 7H AS-DRILLED

API WELL #: 47 61 01886  
STATE COUNTY PERMIT

Cement Job Log



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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	7-Sep-22	Serv. Supervisor:	Steven Long
Cust. Rep.:	JOSH	Ticket #:	BPA-2209-0016	Serv. Center:	Black Lick - 1571
Well Name:	McClellan 7H	API Well #:	47-061-01886	County:	Monongalia
Well Type:		Rig:	PATTERSON 277	State:	WV
			Type of Job:	CM-SURFACE CASING	

Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
		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+0.25 PPS NLM-600	1240	15.6	30%	1.19	5.21	262.33	1,472.99	154
Fresh Water Displacement			8.33			-	216.12	-	
0						-		-	
						-		-	
						-		-	
						-		-	
						-		-	
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						-		-	
						-		-	

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 JAN 29 2024  
 WV Department of Environmental Protection

Displacement Chemicals:

OPEN HOLE DATA				TUBULAR DATA										
17.5 in. O.H. 128 to 1,438 ft				13.375 in. 54.5#, ( 0 to 1,438 ft)				SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Temp.	Bulk Temp.	Slurry 1 Temp.	Slurry 2 Temp.	Slurry 3 Temp.	Slurry 4 Temp.	13.375 54.5#	BTC	1456	J-55	12.615	2730	1130		
67.0 °F		81.0 °F												

PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS					
24 in. 97.4# ( 0 to 128 ft)				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP		
								1456	1412.6				

WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS	CSG 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	8.4 ppg	218.4 bbl	H2O	8.4 ppg		533	430	2184	> 200	6.5	68.0 °F	900
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)	
Yes	600.00	Y	-	48.00	-	Yes	1,000.00	No	-	No	44	

Comments/Additional Details:

Steven Long Service Supervisor  
 7-Sep-22 Date

02/23/2024

Cement Job Log



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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	10-Sep-22	Serv. Supervisor:	Anthony Barbara
Cust. Rep.:		Ticket #:	BPA-2209-0018	Serv. Center:	Black Lick - 1571
Well Name:	McClellan 7H	API Well #:	47-061-01886	County:	Monongalia
Well Type:		Rig:	Patterson 277	State:	WV
			Type of Job:	CM-INTER. CASING	

Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
		Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbbls)	Fluid Volume (cuft)	Mix Water (bbbls)
6% Gel Spacer	+20.0 PPB NEX-020		8.7		4.62	33.66	25.00	-	
15.6 lb/gal Cement	100% NCM-910 +0.5% NAC-110	915	15.6	30%	1.18	5.23	192.89	1,083.05	114
Fresh Water Displacement			8.33			-	205.65	-	
0						-		-	
						-		-	
						-		-	
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Displacement Chemicals:

OPEN HOLE DATA						TUBULAR DATA									
12.375 in. O.H. 1,438 to 2,700 ft						9.625 in. 36#, ( 0 to 2,700 ft)			SIZE WEIGHT	THRDT	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Temp.	Bulk Temp.	Slurry 1 Temp.	Slurry 2 Temp.	Slurry 3 Temp.	Slurry 4 Temp.										
86.0 °F		75.4 °F				9.625" 36#	BTC	2716	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
						2716	2669		

WELL FLUID			DISPLACEMENT FLUID				DIFF PRESS	CSG 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)					
Air		206 bbl	Processed	8.7 ppg		973	1023	1500	7	<200	73.0 °F	1000	
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)		
Yes	1,050.00	Y		18.00		Yes	1,100.00	No	3.00	No	44		

Comments/Additional Details:

*Anthony Barbara*  
 Service Supervisor  
10-Sep-22  
Date

02/23/2024

Cement Job Log



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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	20-Sep-22	Serv. Supervisor:	Adam Pavelchick
Cust. Rep.:	TROY	Ticket #:	BPA-2209-0045	Serv. Center:	Black Lick - 1571
Well Name:	McClellan 7H	API Well #:	47-061-01885	County:	Monongalia State: WV
Well Type:		Rig:	PATTERSON 277	Type of Job:	CM-PROD. CASING

Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
		Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Fluid Volume (cuft)	Mix Water (bbls)
CUSTOMER SUPPLIED	5 1/2 HEAD AND BOWL								
13.5 lb/gal PureScrub Spacer w/ Surfactant	+7.0 PPB NFP-703+5.0 PPB NSU-888		13.5		5.65	26.46	80.00	-	
14.5 lb/gal Cement	50 % NCM-910+50 % NPZ-010 +0.2 % NFP-703+0.15 % NAS-504+0.25 % NRT-213+0.2 % NFL-549+0.1 % NTC-405	4530	14.5		1.16	4.90	934.22	5,245.62	528
Sugar Water Displacement	+5.0 PPB NRT-215					-	20.00	-	
Fresh Water Displacement						-	522.76	-	
						-		-	
						-		-	
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						-		-	
Displacement Chemicals:									

OPEN HOLE DATA				TUBULAR DATA										
8.75 in. O.H. 2,700 to 7,821 ft 8.5 in. O.H. 7,821 to 24,477 ft				5.5 in. 20#, ( 0 to 24,477 ft)				SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Temp.	Bulk Temp.	Slurry 1 Temp.	Slurry 2 Temp.	Slurry 3 Temp.	Slurry 4 Temp.	5 1/2 20#	BTC	22408	P-110	4.778	12640	11085		
62.0 °F	62.0 °F	74.0 °F												
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS						
9.625 in. 36# ( 0 to 2,700 ft)				TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP			
								22408	22367					
WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS	CSG 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)						
OBM	13.6 ppg	496.5 bbl	H2O	8.3 ppg		3270		8000	<300	7	68.0 °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 Recirculation	Rathole Length (ft)			
Yes	3,300.00	Y	-	-	1,252	Yes	8,000.00	No	-	No	18			

Comments/Additional Details:

*Adam Pavelchick*      20-Sep-22  
 Service Supervisor      Date

# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/15/2022
Job End Date:	1/6/2023
State:	West Virginia
County:	Monongalia
API Number:	47-061-01886-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	McClellan 7H
Latitude:	39.62162100
Longitude:	-80.27882900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,096
Total Base Water Volume (gal):	28,189,392
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					
			Water	7732-18-5	100.00000	88.12945	None
Sand (100 Mesh Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	10.33162	None
Sand (40/70 White Proppant)	ProFrac	Proppant					
			Silica Substrate	14808-60-7	100.00000	1.17736	None
Hydrochloric Acid (7.5%)	CNR	Acidizing					
			Water	7732-18-5	85.00000	0.22363	None
			Hydrochloric Acid (Hydrogen Chloride)	7647-01-0	37.00000	0.09734	None
StimSTREAM FR 9800	Chemstream	Friction Reducer					
			Butene, homopolymer	9003-29-6	25.00000	0.01483	None
			alkanes, C16-20-iso-	90622-59-6	25.00000	0.01483	None
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00178	None
Clearal 268	Chemstream	Biocide					
			Non-hazardous substances	Proprietary	80.00000	0.01775	None

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 Division of Oil and Gas



			Glutaraldehyde	111-30-8	20.00000	0.00444	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00067	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00067	None
			Ethanol	64-17-5	1.50000	0.00033	None
StimSTREAM SC 405	Chemstream	Scale Control					
			Non-Hazardous Substances	Proprietary	70.00000	0.01087	None
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00155	None
			Citric Acid	77-92-9	10.00000	0.00155	None
			2-Phosphono-1,2,4-butanetricarboxylic acid (PBTC)	37971-36-1	10.00000	0.00155	None
ProHib 100	CNR	Acid Inhibitor					
			2-Butoxyethanol	111-76-2	60.00000	0.00046	None
			Proprietary material	Proprietary	30.00000	0.00023	None
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00015	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	0.00013	None
			Acetic Acid	64-19-7	5.00000	0.00003	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					
			Water	7732-18-5	85.00000	0.22363	
			Non-hazardous substances	Proprietary	80.00000	0.01775	
			Butene, homopolymer	9003-29-6	25.00000	0.01483	
			Non-Hazardous Substances	Proprietary	70.00000	0.01087	
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00178	
			Citric Acid	77-92-9	10.00000	0.00155	
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00155	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00067	
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00067	
			Ethanol	64-17-5	1.50000	0.00033	
			Proprietary material	Proprietary	30.00000	0.00023	
			Proprietary non-ionic surfactant	Proprietary	20.00000	0.00015	
			Proprietary corrosion inhibitor	Proprietary	10.00000	0.00008	
			Proprietary ethoxylated alcohol	Proprietary	10.00000	0.00008	
			Acetic Acid	64-19-7	5.00000	0.00003	

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 NW Department of  
 Environmental Protection