

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

API 47 - 061 - 01940 County Monongalia District Battelle
Quad Wadestown Pad Name Phoenix Field/Pool Name _____
Farm name Charles Wendell Moore & Frank M Chisler Well Number 5H
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 4388198.4 Easting 562456.3
Landing Point of Curve Northing 4388615.5 Easting 562825.4
Bottom Hole Northing 4391858.2 Easting 560589.7

Elevation (ft) 1,503' 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 7/5/23 Date drilling commenced 8/17/23 Date drilling ceased 11/19/23
Date completion activities began 2/7/24 Date completion activities ceased 3/17/24
Verbal plugging (Y/N) NA Date permission granted _____ Granted by _____

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

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Freshwater depth(s) ft 1,360 Open mine(s) (Y/N) depths Y, Federal #2 @ 1,230
Salt water depth(s) ft 2,760 Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 1,230 Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) N

APPROVED

Reviewed by:

[Signature]

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WR-35
Rev. 8/23/13

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API 47- 061 - 01940 Farm name Charles Wendell Moore & Frank M Chisler Well number 5H

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	32"	24"	100'	N		NA	N
Surface	17-1/2"	13-3/8"	1,555'	N	54.5	1400	N
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,815'	N	J-55/36	2494	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	21,817'	N	P-110/20	NA	N
Tubing							
Packer type and depth set							

Comment Details Casing depths based on KB elevation.

Permit approved to set FW casing to cover Red Rock Formation.

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	A Common	272	15.6			CTS	48
Surface	L, NCM-956	2155	15.6	1.14	2,448	CTS	8
Coal							
Intermediate 1	L, NCM-956	1070	15.6	1.13	1,207	CTS	8
Intermediate 2							
Intermediate 3							
Production	L, NCM-956	4115	14.5	1.12	4,629	2,270	48
Tubing							

Drillers TD (ft) 21,858' Loggers TD (ft) 21,833'

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure _____

Kick off depth (ft) 7,754'

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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

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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: Single piece bowspring centralizers placed every joint (~40') 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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API 47- 061 - 01940 Farm name Charles Wendell Moore & Frank M Chisler Well number 5H

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.

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API 47-061-01940 Farm name Charles Wendell Moore & Frank M Chisler Well number 5H

PRODUCING FORMATION(S)	DEPTHS
Marcellus	8,164' TVD 21,858' MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ☒ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface 3109 psi Bottom Hole 5810 psi DURATION OF TEST 24 hrs

OPEN FLOW Gas 3093 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 ₂ S, ETC)
See attached	0		0		

Please insert additional pages as applicable.

Drilling Contractor Patterson UTI
Address 67090 Executive Dr. City St. Clairsville State OH Zip 43950

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

Cementing Company NexTier
Address 730 Braddock View Drive City Lemont Furnace State PA Zip 15456

Stimulating Company Evolution Well Services
Address 1780 Hughes Landing Blvd, Suite 123 City The Woodlands State TX Zip 77381

Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422
Signature Hollie Medley Title Regulatory Manager Date 4-7-25

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

05/30/2025

Phoenix 5H 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	2/7/2024	4,648		9,442	84	418	7,443	300,050	513
2	2/7/2024	5,260	5,854	9,497	90	444	10,121	455,088	476
3	2/8/2024	5,247	6,904	9,694	93	13	9,851	454,060	475
4	2/8/2024	5,056	6,132	9,509	87	78	9,649	455,098	473
5	2/9/2024	5,088	7,200	9,604	88	58	9,689	455,170	469
6	2/9/2024	5,719	7,297	9,666	93	11	9,654	455,000	463
7	2/10/2024	5,037	6,792	9,588	90	32	9,614	455,137	457
8	2/10/2024	5,191	7,215	9,727	90	48	9,584	455,104	455
9	2/12/2024	5,089	7,311	9,741	86	74	9,613	455,149	442
10	2/12/2024	5,984	7,345	9,735	89	37	9,632	455,073	440
11	2/13/2024	4,785	7,154	9,749	90	63	9,698	454,994	46
12	2/13/2024	5,443	6,728	9,725	88	35	9,707	455,072	431
13	2/14/2024	5,566	6,803	9,623	93	35	9,639	455,140	427
14	2/15/2024	5,509	7,012	9,698	92	59	9,612	455,089	427
15	2/15/2024	6,380	7,203	9,715	92	11	9,652	455,716	424
16	2/16/2024	6,528	7,011	9,664	93	306	10,409	455,451	416
17	2/17/2024	5,875	7,011	9,650	93	48	9,658	455,355	414
18	2/18/2024	5,435	7,106	9,534	93	58	9,669	455,120	409
19	2/18/2024	5,532	6,669	9,525	90	62	9,590	455,137	404
20	2/19/2024	6,694	7,130	9,718	94	14	9,603	455,389	409
21	2/20/2024	6,521	7,099	9,546	90	18	9,618	455,126	398
22	2/20/2024	5,393	7,365	9,410	90	64	9,583	455,094	388
23	2/21/2024	6,137	7,208	9,567	94	21	9,632	455,527	388
24	2/22/2024	5,404	6,945	9,634	90	65	9,664	455,078	382
25	2/22/2024	6,748	7,145	9,439	94	24	9,646	455,325	381
26	2/23/2024	7,056	6,913	9,540	94	12	9,596	455,363	376
27	2/24/2024	6,317	6,733	9,225	94	18	9,558	455,198	365
28	2/24/2024	5,830	6,783	8,865	93	19	9,545	455,068	363
29	2/25/2024	5,971	6,695	9,356	94	41	9,629	455,261	369
30	2/26/2024	6,451	7,222	9,364	94	22	10,177	455,399	356
31	2/27/2024	5,848	7,440	9,432	93	18	9,545	455,018	343
32	2/27/2024	7,040	6,844	9,486	93	18	9,569	455,294	360
33	2/28/2024	6,603	7,201	9,600	93	9	9,576	455,394	351
34	2/29/2024	5,565	7,177	9,420	93	10	9,495	455,219	352
35	3/1/2024	5,604	7,848	9,519	93	11	9,494	455,175	330
36	3/1/2024	5,732	7,334	9,383	87	40	9,502	455,174	326
37	3/1/2024	5,828	7,420	9,295	89	43	9,525	455,058	320
38	3/1/2024	5,645	6,866	9,267	94	6	9,482	454,211	318
39	3/2/2024	5,694	7,043	9,307	90	9	9,486	455,058	312
40	3/2/2024	5,678	7,212	9,299	94	8	9,524	454,532	319
41	3/3/2024	5,529	6,723	9,059	90	38	9,479	455,311	303

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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	3/4/2024	5,813	6,259	8,862	94	13	9,488	455,459	298
43	3/4/2024	5,678	6,313	8,873	94	19	9,487	455,126	292
44	3/5/2024	6,931	8,062	8,890	93	7	9,552	455,101	289
45	3/5/2024	5,165	7,645	8,619	94	20	9,474	455,085	286
46	3/6/2024	5,256	5,956	8,510	93	37	9,487	455,300	285
47	3/7/2024	5,456	6,452	8,786	94	5	9,429	455,405	278
48	3/7/2024	5,169	6,448	8,199	91	55	9,484	455,053	274
49	3/8/2024	6,494	7,009	8,605	93	60	9,449	455,078	269
50	3/8/2024	5,366	5,921	8,598	94	48	9,487	455,168	263
51	3/9/2024	5,257	6,765	8,411	94	12	9,533	456,868	278
52	3/10/2024	5,096	4,933	8,423	94	10	9,500	455,051	258
53	3/11/2024	5,360	5,904	8,310	94	48	9,493	455,082	254
54	3/11/2024	5,156	6,877	8,210	94	11	9,469	454,996	248
55	3/12/2024	5,209	5,742	8,310	94	69	9,452	455,066	242
56	3/12/2024	5,427	5,850	8,070	94	23	9,521	455,115	239
57	3/13/2024	4,995	7,027	8,363	94	10	9,469	455,916	229
58	3/13/2024	5,374	6,653	8,190	94	10	9,484	455,070	231
59	3/14/2024	6,177	7,155	8,233	94	49	9,486	455,343	286
60	3/14/2024	5,056	7,686	8,145	94	58	9,499	455,129	221
61	3/15/2024	5,941	7,849	8,315	94	7	9,434	455,830	226
62	3/15/2024	5,146	7,258	8,353	94	46	9,459	455,063	212
63	3/16/2024	5,782	7,077	8,271	94	7	9,406	455,330	213
64	3/16/2024	5,768	7,263	8,458	94	54	9,459	455,037	203
65	3/17/2024	6,056	8,112	8,640	94	20	9,462	455,334	210
66	3/17/2024	5,616	6,747	8,355	93	38	9,439	455,085	195

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Phoenix 5H Perforation Report				
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	2/7/2024	40		21,714
2	2/7/2024	40	21,671	21,512
3	2/8/2024	40	21,470	21,312
4	2/8/2024	40	21,270	21,111
5	2/9/2024	40	21,069	20,911
6	2/9/2024	40	20,869	20,711
7	2/10/2024	40	20,669	20,510
8	2/10/2024	40	20,468	20,310
9	2/12/2024	40	20,268	20,110
10	2/12/2024	40	20,067	19,909
11	2/13/2024	40	19,867	19,709
12	2/13/2024	40	19,667	19,508
13	2/14/2024	40	19,466	19,308
14	2/15/2024	40	19,266	19,108
15	2/15/2024	40	19,066	18,907
16	2/16/2024	40	18,865	18,707
17	2/17/2024	40	18,665	18,507
18	2/18/2024	40	18,464	18,306
19	2/18/2024	40	18,264	18,106
20	2/19/2024	40	18,064	17,905
21	2/20/2024	40	17,863	17,705
22	2/20/2024	40	17,663	17,505
23	2/21/2024	40	17,463	17,304
24	2/22/2024	40	17,262	17,104
25	2/22/2024	40	17,062	16,903
26	2/23/2024	40	16,861	16,703
27	2/24/2024	40	16,661	16,503
28	2/24/2024	40	16,461	16,302
29	2/25/2024	40	16,260	16,102
30	2/26/2024	40	16,060	15,902
31	2/27/2024	40	15,860	15,701
32	2/27/2024	40	15,659	15,501
33	2/28/2024	40	15,459	15,300
34	2/29/2024	40	15,258	15,100
35	3/1/2024	40	15,058	14,900
36	3/1/2024	40	14,858	14,699
37	3/1/2024	40	14,657	14,499
38	3/1/2024	40	14,457	14,299
39	3/2/2024	40	14,256	14,098
40	3/2/2024	40	14,056	13,898
41	3/3/2024	40	13,856	13,697
42	3/4/2024	40	13,655	13,497
43	3/4/2024	40	13,455	13,297
44	3/5/2024	40	13,255	13,096
45	3/5/2024	40	13,054	12,896
46	3/6/2024	40	12,854	12,696
47	3/7/2024	40	12,653	12,495

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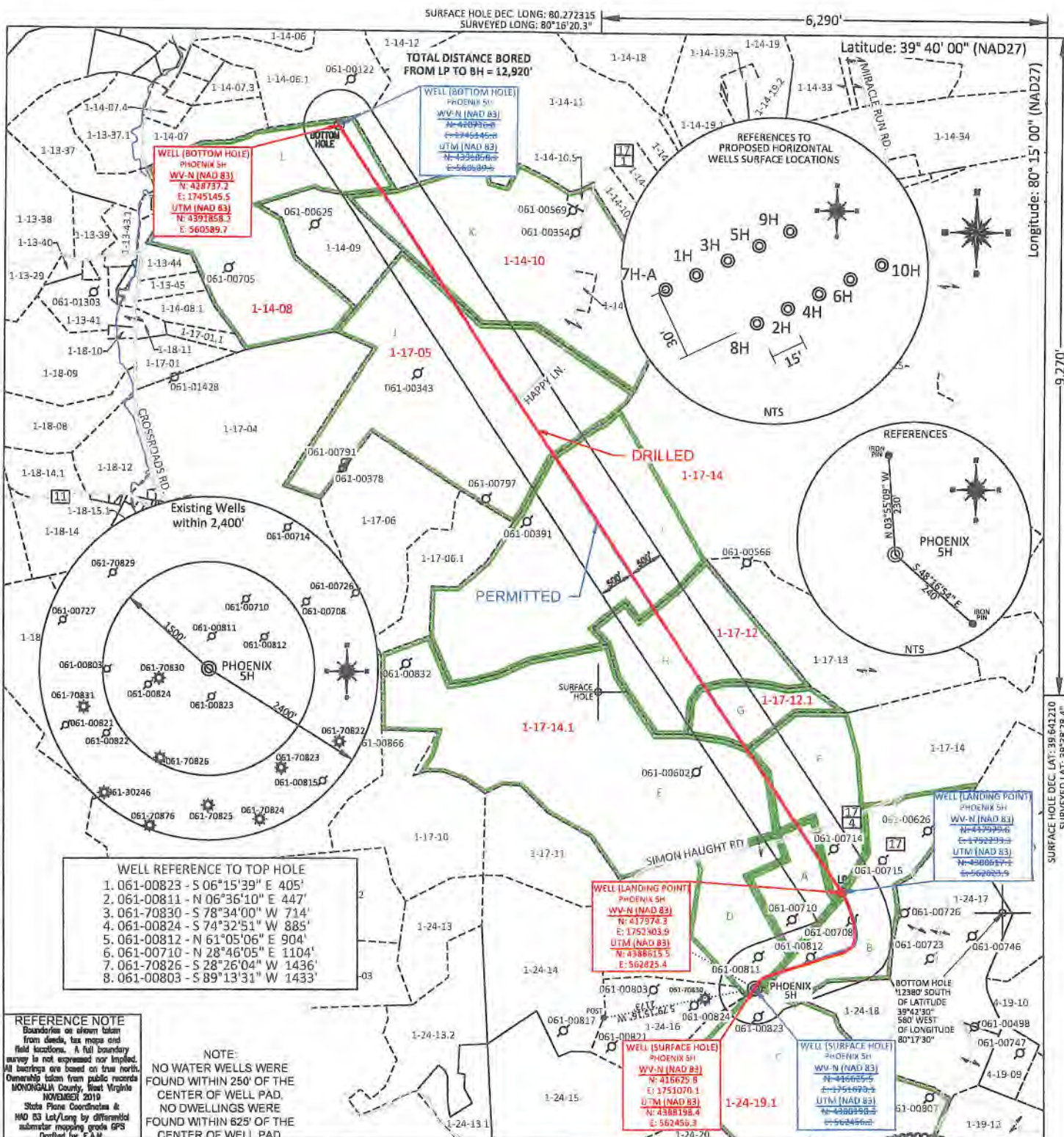
Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	3/7/2024	40	12,453	12,295
49	3/8/2024	40	12,253	12,094
50	3/8/2024	40	12,052	11,894
51	3/9/2024	40	11,852	11,694
52	3/10/2024	40	11,652	11,493
53	3/11/2024	40	11,451	11,293
54	3/11/2024	40	11,251	11,092
55	3/12/2024	40	11,050	10,892
56	3/12/2024	40	10,850	10,692
57	3/13/2024	40	10,650	10,491
58	3/13/2024	40	10,449	10,291
59	3/14/2024	40	10,249	10,091
60	3/14/2024	40	10,048	9,890
61	3/15/2024	40	9,848	9,690
62	3/15/2024	40	9,648	9,489
63	3/16/2024	40	9,447	9,289
64	3/16/2024	40	9,247	9,089
65	3/17/2024	40	9,047	8,888
66	3/17/2024	40	8,846	8,688

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FILE #:	NNE16	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.	
DRAWING #:	3031		
SCALE:	PLAT: 1" = 2000' TICK: 1" = 2000'		
MINIMUM DEGREE OF ACCURACY:	1/200		
PROVEN SOURCE OF ELEVATION:	SUBMETER MAPPING GRADE GPS	Signed:	
		L.L.S. #2124 : Ernest J. Benchek III	

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS		DATE:	APRIL 2, 2025
WYDEP		OPERATOR'S WELL #:	PHOENIX 5H AS-DRILLED
OFFICE OF OIL & GAS		API WELL #:	47 61 01940
601 57TH STREET		STATE	COUNTY PERMIT
CHARLESTON, WV 25304		AS-BUILT ELEVATION:	1,503.50'
Well Type:	☐ Oil ☐ Waste Diposal ☐ Production ☐ Deep	QUADRANGLE:	WADESTOWN
	☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow	ACREAGE:	466.30 +/-
WATERSHED:	DUNKARD CREEK	ACREAGE:	1,474.772 +/-
COUNTY/DISTRICT:	MONONGALIA / BATTELLE	05/30/2025	
SURFACE OWNER:	CHARLES WENDELL MOORE & FRANK M. CHISLER		
OIL & GAS ROYALTY OWNER:	Pat L. Park, et al		
LEASE NUMBERS:			
TARGET FORMATION: MARCELLUS		DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒	
WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC		PLUG OFF FORMATION ☐ PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐	
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200		CLEAN OUT & REPLUG ☐ OTHER CHANGE ☐ (SPECIFY):	
CITY: CHARLESTON STATE: WV ZIP CODE: 25301		DRILLED DEPTH: TVD: 8,164' TMD: 21,858'	
		DESIGNATED AGENT: JOHN ADAMS	
		ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200	
		CITY: CHARLESTON STATE: WV ZIP CODE: 25301	

	PROPERTY OWNER INDEX
1-14-08	KING FAMILY TRUST
1-14-10	MICHAEL A & ANITA K BRAGG (LIFE-GEORGE H FOLEY)
1-17-05	KENT A. & SHIRLEY A. LEONHARDT
1-17-12	PHOENIX ENERGY RESOURCES, LLC
1-17-12.1	NANCY MOORE & CATHERINE ANN MOORE
1-17-14	PHOENIX ENERGY RESOURCES, LLC
1-17-14.1	FRANK M. CHISLER
1-24-19.1	CHARLES WENDELL MOORE

	LEASE INDEX		
A	WV-061-004079-002	G	WV-061-004281-002
B	WV-061-003767-004	H	WV-061-004290-001
C	WV-061-004463-001	I	WV-061-004937-006
D	WV-061-004076-010	J	WV-061-005790-003
E	WV-061-004433-001	K	WV-061-004505-001
F	WV-061-004433-001	L	WV-061-004874-001

05/30/2025

FILE #: NEE14
DRAWING #: 3031
SCALE: N/A

DATE: APRIL 2, 2025
OPERATOR'S WELL #: PHOENIX 5H AS-DRILLED
API WELL #: 47 61 01940
STATE COUNTY PERMIT

Cement Job Log

[illegible]

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	02/06/2024
Job End Date:	03/23/2024
State:	West Virginia
County:	Monongalia
API Number:	47-061-01940-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	PHOENIX 5H
Latitude:	39.641167
Longitude:	-80.272417
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7581
Total Base Water Volume (gal)*:	26472684
Total Base Non Water Volume:	0



Water Source	Percent
Surface Water, < 1000TDS	85.00%
Other, > 1000TDS	15.00%

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
Clearal 268	Chemstream	Biocide					
EZ-A 431	TARQUIN	HCL Additive					
HCL Acid (28%)	TARQUIN	Acid					
Sand	US Silica	Proppant					
StimSTREAM FR 9800	Chemstream	Friction Reducer					
StimSTREAM SC 405	Chemstream	Scale Control					
Water	NNE	Carrier/Base Fluid					
Items above are Trade Names. Items below are the individual ingredients.							
			Water	7732-18-5	100.00000	88.00770	None
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	11.88654	None
			Acrylamide-Chloride Salt of Trimethylammonio-	69418-26-4	40.00000	0.02230	None

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			Ethyl Acrylate Copolymer				
			Alkanes, C12-26-Branched and Linear	90622-53-0	40.00000	0.02230	None
			Hydrogen chloride	7647-01-0	28.00000	0.01015	None
			Glutaraldehyde	111-30-8	20.00000	0.00444	None
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00279	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00197	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00197	None
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00067	None
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00067	None
			Ethanol	64-17-5	1.50000	0.00033	None
			Methanol	67-56-1	25.00000	0.00004	None
			Pyridinium, 1-(phenylmethyl)-, ethyl methyl derivs., chlorides	68909-18-2	25.00000	0.00004	None
			Proprietary	Proprietary	10.00000	0.00003	None -
			Ethanoic Acid	64-19-7	15.00000	0.00002	None
			Ethoxylated Alcohols	68439-50-9	15.00000	0.00002	None
			2-ethylhexanol	104-76-7	5.00000	0.00001	None
			Ethoxylated Nonylphenols	127087-87-0	5.00000	0.00001	None

* 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%

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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