WR-35
Rev. 8/23/13

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

API 47 - 061 - 01938 County Monongalia District Battelle
Quad Wadestown Pad Name Phoenix Field/Pool Name
Farm name Charles Wendell Moore & Frank M Chisler Well Number 1H
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 4388194.3	Easting 562448.2
Landing Point of Curve	Northing 4388270.1	Easting 562335.7
Bottom Hole	Northing 4391872.1	Easting 559850.1

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

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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 7/5/2023 Date drilling commenced 8/15/2023 Date drilling ceased 10/19/2023
Date completion activities began 2/8/2023 Date completion activities ceased 3/21/2024
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 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

Reviewed by: MJK
APPROVED 06/06/2025

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API 47- 061 - 01938 Farm name Charles Wendell Moore & Frank M Chisler Well number 1H

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"	1,531'	N	54.5	NA	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,822'	N	J-55/36	NA	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	22,976'	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	1,345	15.6	1.14	1528	CTS	8
Coal							
Intermediate 1	L, NCM-956	1,070	15.6	1.13	1207	CTS	8
Intermediate 2							
Intermediate 3							
Production	L, NCM-956	4,405	14.5	1.12	4955.38	2096	48
Tubing							

Drillers TD (ft) 23,008' Loggers TD (ft) 22,983'
Deepest formation penetrated Marcellus Plug back to (ft) NA
Plug back procedure

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Kick off depth (ft) 7,458'

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: 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 - 01938 Farm name Charles Wendell Moore & Frank M Chisler Well number 1H

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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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	8,151' TVD	23,008' MD

Please insert additional pages as applicable.

GAS TEST □ Build up □ Drawdown ■ Open Flow OIL TEST □ Flow □ Pump

SHUT-IN PRESSURE Surface 3362 psi Bottom Hole 5888 psi DURATION OF TEST 24 hrs

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY
	4205 mcfpd	bpd	bpd	bpd	□ Estimated ■ Orifice □ Pilot

LITHOLOGY/ FORMATION NAME	TOP DEPTH IN FT 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_2S, ETC)
See attached	0		0		

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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 Dr. 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

06/06/2025

Phoenix 1H
Perforation Report

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	2/8/2024			22,872
2	2/8/2024	40	22,828	22,668
3	2/9/2024	40	22,626	22,467
4	2/10/2024	40	22,424	22,265
5	2/10/2024	40	22,222	22,063
6	2/11/2024	40	22,021	21,861
7	2/11/2024	40	21,819	21,660
8	2/12/2024	40	21,617	21,458
9	2/13/2024	40	21,416	21,256
10	2/13/2024	40	21,214	21,055
11	2/14/2024	40	21,012	20,853
12	2/15/2024	40	20,810	20,651
13	2/15/2024	40	20,609	20,449
14	2/16/2024	40	20,407	20,248
15	2/17/2024	40	20,205	20,046
16	2/18/2024	40	20,004	19,844
17	2/19/2024	40	19,802	19,642
18	2/19/2024	40	19,600	19,441
19	2/20/2024	40	19,398	19,239
20	2/21/2024	40	19,197	19,037
21	2/21/2024	40	18,995	18,836
22	2/22/2024	40	18,793	18,634
23	2/22/2024	40	18,592	18,432
24	2/23/2024	40	18,390	18,230
25	2/24/2024	40	18,188	18,029
26	2/25/2024	40	17,986	17,827
27	2/25/2024	40	17,785	17,625
28	2/26/2024	40	17,583	17,424
29	2/27/2024	40	17,381	17,222
30	2/27/2024	40	17,179	17,020
31	2/28/2024	40	16,978	16,818
32	2/29/2024	40	16,776	16,617
33	3/2/2024	40	16,574	16,415
34	3/3/2024	40	16,373	16,213
35	3/2/2024	40	16,171	16,012
36	3/4/2024	40	15,969	15,810
37	3/5/2024	40	15,767	15,608
38	3/5/2024	40	15,566	15,406
39	3/6/2024	40	15,364	15,205
40	3/6/2024	40	15,162	15,003
41	3/7/2024	40	14,961	14,801
42	3/7/2024	40	14,759	14,599
43	3/8/2024	40	14,557	14,398
44	3/9/2024	40	14,355	14,196
45	3/9/2024	40	14,154	13,994
46	3/10/2024	40	13,952	13,793
47	3/11/2024	40	13,750	13,591

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Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
48	3/12/2024	40	13,549	13,389
49	3/12/2024	40	13,347	13,187
50	3/13/2024	40	13,145	12,986
51	3/13/2024	40	12,943	12,784
52	3/13/2024	40	12,742	12,582
53	3/14/2024	40	12,540	12,381
54	3/14/2024	40	12,338	12,179
55	3/15/2024	40	12,136	11,977
56	3/16/2024	40	11,935	11,775
57	3/16/2024	40	11,733	11,574
58	3/17/2024	40	11,531	11,372
59	3/17/2024	40	11,330	11,170
60	3/17/2024	40	11,128	10,969
61	3/18/2024	40	10,926	10,767
62	3/18/2024	40	10,724	10,565
63	3/19/2024	40	10,523	10,363
64	3/19/2024	40	10,321	10,162
65	3/19/2024	40	10,119	9,960
66	3/20/2024	40	9,918	9,758
67	3/20/2024	40	9,716	9,556
68	3/20/2024	40	9,514	9,355
69	3/21/2024	40	9,312	9,153
70	3/21/2024	40	9,111	8,951
71	3/21/2024	40	8,909	8,750
72	3/21/2024	40	8,707	8,548

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06/06/2025

Phoenix 1H

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	2/8/2024	4,654		9,694	94	179	6,979	300,152	505
2	2/8/2024	5,101	8,324	9,605	93	775	10,425	455,277	506
3	2/9/2024	5,208	7,015	9,696	89	29	9,667	455,241	29
4	2/10/2024	4,083	8,650	9,667	91	79	9,720	455,120	500
5	2/10/2024	5,385	6,827	9,808	90	58	9,644	455,153	489
6	2/11/2024	5,037	6,506	9,656	89	45	9,725	455,598	486
7	2/11/2024	5,334	7,127	9,809	90	41	9,705	455,023	493
8	2/12/2024	5,280	6,943	9,829	90	33	9,734	455,198	475
9	2/13/2024	5,056	7,015	9,846	92	29	9,638	455,082	470
10	2/13/2024	5,363	7,148	9,886	89	51	9,705	455,089	469
11	2/14/2024	5,766	6,820	9,824	88	27	9,619	455,101	461
12	2/15/2024	6,562	6,900	9,853	92	57	9,758	455,255	465
13	2/15/2024	5,126	6,360	9,735	93	63	9,668	455,178	459
14	2/16/2024	6,886	7,217	9,794	93	135	9,751	455,040	451
15	2/17/2024	7,060	7,193	9,861	92	27	10,288	455,351	446
16	2/18/2024	7,400	6,891	9,839	93	24	9,658	455,449	442
17	2/19/2024	5,887	5,201	9,635	91	68	9,660	455,182	437
18	2/19/2024	5,609	6,957	9,830	90	76	9,654	455,185	433
19	2/20/2024	6,885	7,269	9,863	92	16	9,639	455,412	437
20	2/21/2024	6,026	7,114	9,596	91	55	9,656	455,143	425
21	2/21/2024	6,822	7,223	9,756	94	21	9,652	455,324	416
22	2/22/2024	6,421	6,979	9,691	94	48	9,638	455,318	418
23	2/22/2024	6,865	7,290	8,642	94	17	9,606	455,283	406
24	2/23/2024	5,891	7,608	9,845	93	20	9,591	455,314	405
25	2/24/2024	7,070	7,376	9,686	94	10	9,605	455,379	408
26	2/25/2024	5,225	7,489	9,683	93	19	9,585	455,185	394
27	2/25/2024	665	7,556	9,346	85	21	10,304	455,016	390
28	2/26/2024	5,655	6,334	9,713	91	41	10,545	455,002	382
29	2/27/2024	7,249	7,183	9,860	91	11	9,582	455,269	395
30	2/27/2024	5,632	7,002	9,761	89	9	9,868	455,042	382
31	2/28/2024	6,717	7,455	9,689	91	20	9,605	455,298	393
32	2/29/2024	6,060	7,404	9,307	94	30	9,689	455,444	367
33	3/2/2024	6,327	7,458	9,411	85	44	9,558	455,462	363
34	3/3/2024	5,615	9,020	9,511	92	5	9,535	454,786	357
35	3/2/2024	5,891	7,553	9,517	92	47	9,516	455,170	355
36	3/4/2024	5,640	6,300	9,332	93	30	9,529	455,234	352
37	3/5/2024	5,409	8,373	9,491	93	17	9,552	455,198	345
38	3/5/2024	5,884	6,771	9,085	88	55	9,537	455,130	344
39	3/6/2024	5,454	8,756	9,469	94	5	9,524	455,270	343
40	3/6/2024	5,532	7,452	9,215	93	35	9,488	455,177	332
41	3/7/2024	5,500	7,111	9,209	93	45	9,512	455,177	328
42	3/7/2024	5,791	7,380	9,258	94	27	9,545	455,116	326
43	3/8/2024	5,630	7,274	9,225	92	55	9,503	455,123	321
44	3/9/2024	5,519	7,190	9,066	94	61	9,581	455,120	315
45	3/9/2024	6,484	7,008	9,102	94	23	9,507	455,174	313

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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	3/10/2024	5,503	4,445	9,026	94	79	9,562	455,356	309
47	3/11/2024	5,454	7,473	9,282	91	9	9,511	455,136	302
48	3/12/2024	5,646	7,500	9,086	93	58	9,559	455,157	299
49	3/12/2024	5,351	7,111	9,291	93	12	9,486	455,054	300
50	3/13/2024	6,431	7,201	9,221	94	66	9,623	455,139	291
51	3/13/2024	5,474	7,156	9,163	94	20	9,495	455,085	282
52	3/13/2024	5,809	8,810	8,854	94	129	9,602	455,132	281
53	3/14/2024	6,514	7,698	9,188	95	4	9,460	455,370	282
54	3/14/2024	6,255	7,550	9,035	94	50	9,586	455,106	281
55	3/15/2024	5,908	6,033	9,046	94	7	9,517	455,124	277
56	3/16/2024	6,098	7,347	8,795	94	125	9,322	455,417	275
57	3/16/2024	6,316	7,509	8,925	94	11	9,486	455,358	262
58	3/17/2024	5,829	7,633	8,914	94	51	9,501	455,123	251
59	3/17/2024	5,980	7,485	8,957	94	9	9,472	455,431	256
60	3/17/2024	5,794	6,830	8,868	94	39	9,484	455,034	243
61	3/18/2024	6,340	6,815	8,794	94	5	9,457	455,331	242
62	3/18/2024	5,641	7,515	8,633	94	90	9,521	455,053	236
63	3/19/2024	5,578	7,519	8,660	94	44	9,504	455,041	234
64	3/19/2024	5,848	7,510	8,628	91	81	10,141	455,000	227
65	3/19/2024	6,246	7,204	8,600	94	68	9,508	455,089	220
66	3/20/2024	7,168	7,052	8,382	94	9	9,439	455,375	231
67	3/20/2024	7,243	7,519	8,500	94	10	9,441	455,289	222
68	3/20/2024	6,012	7,027	8,459	94	64	9,476	455,189	209
69	3/21/2024	5,961	7,208	8,455	8,455	51	9,460	455,891	203
70	3/21/2024	6,644	6,365	8,256	94	24	9,437	455,313	211
71	3/21/2024	6,343	7,122	8,124	94	12	9,398	455,267	204
72	3/21/2024	5,729	7,349	8,293	94	10	9,352	455,077	196

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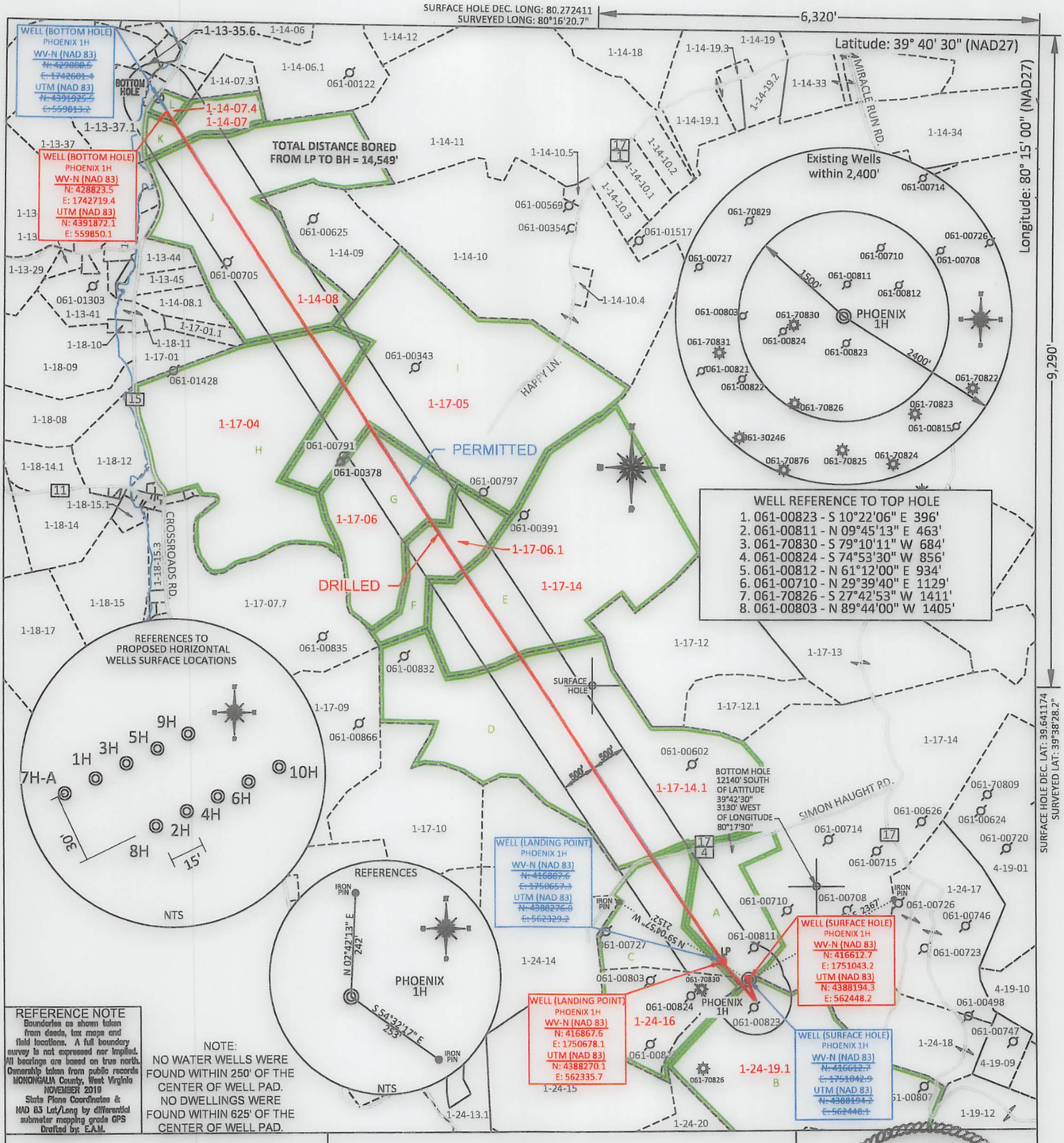


REFERENCE NOTE
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia NOVEMBER 2019
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

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.

FILE #: NNE16

DRAWING #: 3029

SCALE: PLAT: 1" = 2000' TICK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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

ERNEST J. BENCHEK III
LICENSED
No. 2124
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

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

DATE: APRIL 2, 2025

OPERATOR'S WELL #: PHOENIX 1H AS-DRILLED

API WELL #: 47 (STATE) 61 (COUNTY) 01938 (PERMIT)

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

WATERSHED: DUNKARD CREEK

AS-BUILT ELEVATION: 1,503.50'

COUNTY/DISTRICT: MONONGALIA / BATTELLE

QUADRANGLE: WADESTOWN

SURFACE OWNER: CHARLES WENDELL MOORE & FRANK M. CHISLER

ACREAGE: 466.30 +/-

OIL & GAS ROYALTY OWNER: Pat L. Park, et al

ACREAGE: 1,369.037 +/-

06/06/2025

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: 8,151' TMD: 23,008'

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

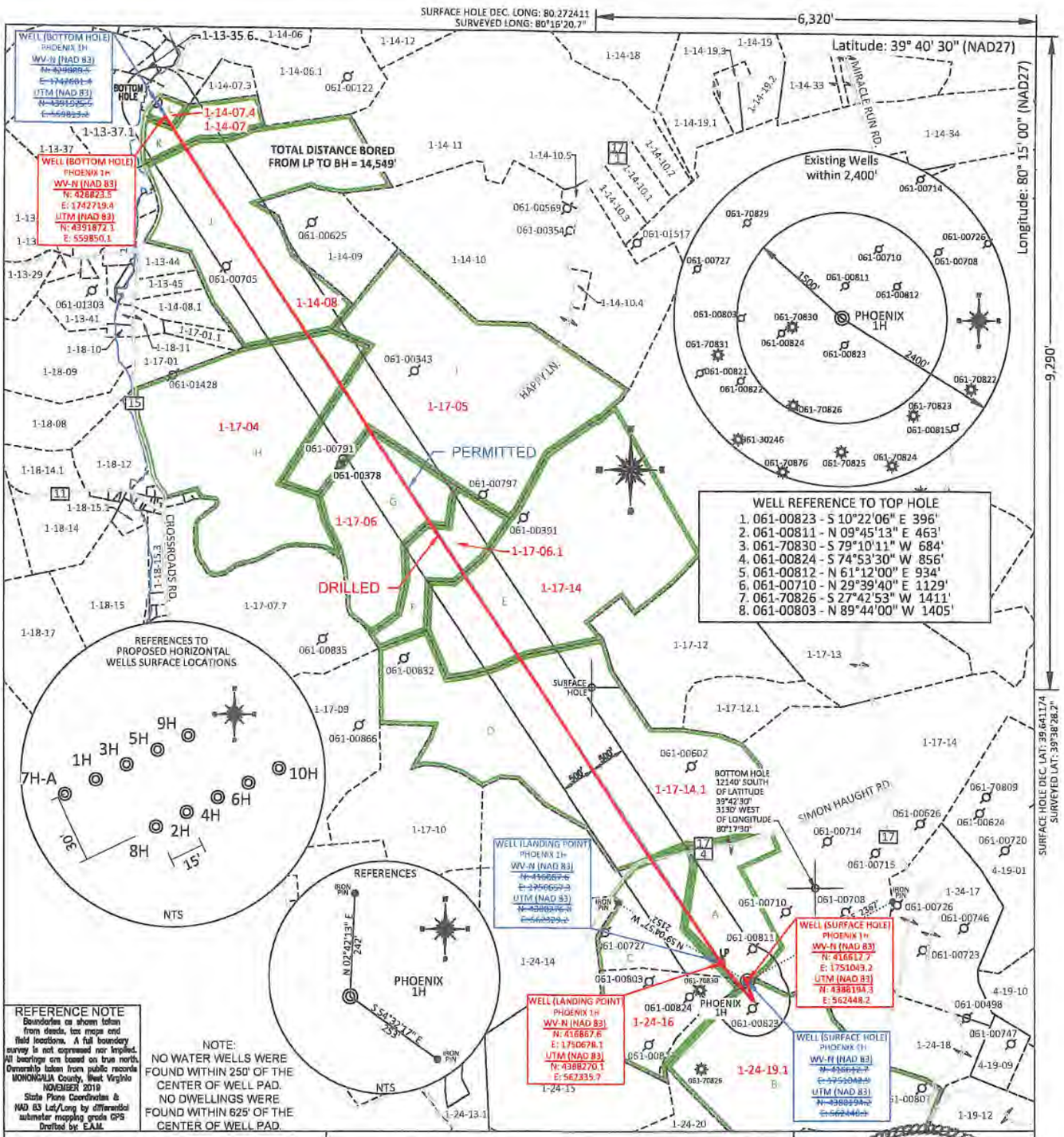
DESIGNATED AGENT: JOHN ADAMS

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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MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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

ERNEST J. BENCHEK III
LICENSED
No. 2124
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

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

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

DATE: APRIL 2, 2025

OPERATOR'S WELL #: PHOENIX 1H AS-DRILLED

API WELL #: 47 (STATE) 61 (COUNTY) 01938 (PERMIT)

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

WATERSHED: DUNKARD CREEK

AS-BUILT ELEVATION: 1,503.50'

COUNTY/DISTRICT: MONONGALIA / BATTELLE

QUADRANGLE: WADESTOWN

SURFACE OWNER: CHARLES WENDELL MOORE & FRANK M. CHISLER

ACREAGE: 466.30 +/-

OIL & GAS ROYALTY OWNER: Pat L. Park, et al

ACREAGE: 1,369.037 +/- 06/06/2025

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: 8,151' TMD: 23,008'

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

	PROPERTY OWNER INDEX
1-24-19.1	CHARLES WENDELL MOORE
1-24-16	ELIZABETH ANN WILSON & RANDY LEE DURR
1-17-14.1	FRANK M. CHISLER
1-17-14	PHOENIX ENERGY RESOURCES, LLC
1-17-06.1	SUSAN ANNE BURNESON
1-17-06	KENT A. & SHIRLEY A. LEONHARDT
1-17-05	KENT A. & SHIRLEY A. LEONHARDT
1-17-04	MARY M. LUNSFORD
1-14-08	KING FAMILY TRUST
1-14-07	DAVID W WOLFE JR & BRANDI SHAY WOLFE
1-14-07.4	DAVID W WOLFE JR & BRANDI SHAY WOLFE

	LEASE INDEX		
A	WV-061-004076-010	G	WV-061-005790-003
B	WV-061-004463-001	H	WV-061-004714-003
C	WV-061-004076-010	I	WV-061-005790-003
D	WV-061-005787-001	J	WV-061-004874-001
E	WV-061-004523-000	K	WV-061-006053-001
F	WV-061-005790-003	L	WV-061-006053-001

06/06/2025

FILE #: NEE14

DRAWING #: 3029

SCALE: N/A

DATE: APRIL 2, 2025

OPERATOR'S WELL #: PHOENIX 1H AS-DRILLED

API WELL #: 47 (STATE) 61 (COUNTY) 01938 (PERMIT)

page 12 of 29

Cement Job Log

NEXTIER

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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	7-Oct-23	Serv. Supervisor:	Steven Long
Cust. Rep.:	NEIL	Ticket #:	BPA-2310-0017	Serv. Center	Black Lick - 1571
Well Name:	Phoenix N 1H	API Well #:	47-061-01938	County: Monongalia	State: WV
Well Type:		Rig:	PATTERSON 277	Type of Job:	CM-SURFACE CASING

Materials Furnished by NexTier

Plugs	Casing Hardware	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-956 +1.5 % NAC-110+0.25 PPS NLM-600	1345	15.6	30%	1.14	4.79	272.13	1,528.00	153
Fresh Water Displacement			8.34				225.70		
0						-		-	
						-		-	
						-		-	
						-		-	
						-		-	
						-		-	

Displacement Chemicals:

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Office of Oil and Gas
APR 09 2025
WV Department of
Environmental Protection

OPEN HOLE DATA			TUBULAR DATA									
17.5 in. O.H. 128 to 1,500 ft			13.375 in. 54.5#, (0 to 1,500 ft)			SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.	13.375 54.5#	BTC	1531	J-55	12.615	2730	1130
55.0 °F		82.0 °F										

PREVIOUS CASING DATA	PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
24 in. 100.5# (0 to 128 ft)	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
					1531	1445.2		

WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY							
H2O	8.4 ppg	223.4 bbl	H20	8.4 ppg	546	452	2184	< 22	7	62.0 °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)
Yes	700.00	Y	-	18.00	-	Yes	1,200.00	No	1.00	No	30

Comments/Additional Details:

Steven Long
Service Supervisor

7-Oct-23
Date

06/06/2025

Cement Job Log

NEXTIER

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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	9-Oct-23	Serv. Supervisor:	Anthony Barbara
Cust. Rep.:	NEIL	Ticket #:	BPA-2310-0018	Serv. Center	Black Lick - 1571
Well Name:	Phoenix N 1H	API Well #:	47-061-01938	County: Monongalia	State: WV
Well Type:		Rig:	Patterson 277	Type of Job:	CM-INTER. CASING

Materials Furnished by NexTier

Plugs	Casing Hardware	Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Fluid Volume (cuft)	Mix Water (bbls)
		Physical Slurry Properties							
6% Gel Spacer	+20.0 PPB NEX-020		8.7		4.62	33.66	25.00	-	
15.6 lb/gal Cement	100 % NCM-956 +0.5 % NAC-110	1070	15.6	30%	1.13	4.82	214.93	1,206.81	123
Fresh Water Displacement			8.33			-	213.38	-	
0						-		-	
						-		-	
						-		-	
						-		-	
						-		-	
						-		-	

Displacement Chemicals:

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Office of Oil and Gas
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OPEN HOLE DATA

17.5 in. O.H. 1,488 to 1,568 ft
12.375 in. O.H. 1,568 to 2,800 ft

Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.
45.0 °F	45.0 °F	67.5 °F			

TUBULAR DATA

9.625 in. 36#, (0 to 2,800 ft)

SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
9.625" 36#	BTC	2825	J-55	8.921	3520	2020

PREVIOUS CASING DATA

13.375 in. 54.5# (0 to 1,488 ft)

PERFORATED INTERVAL DATA

TOP	BTM	SPF	SIZE

CASING EQUIPMENT DEPTHS

SHOE	FLOAT	STAGE	ACP
2825	2783		

WELL FLUID TYPE	WELL FLUID DENSITY	DISPLACEMENT FLUID VOLUME	DISPLACEMENT FLUID TYPE	DISPLACEMENT FLUID DENSITY	DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
Processes	8.7 ppg	213 bbl	Processed	8.7 ppg	1008	1055	1600	<200	54	62.0 °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)
Yes	1,300.00	Y		36.00		Yes	1,450.00	No	1.00	No	30

Comments/Additional Details:

Anthony Barbara
Service Supervisor

9-Oct-23
Date

06/06/2025

Cement Job Log

NEXTIER

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

Customer:	NORTHEAST NATURAL ENERGY LLC	Date:	19-Oct-23	Serv. Supervisor:	Anthony Barbara
Cust. Rep.:	Josh	Ticket #:	BPA-2310-0040	Serv. Center	Black Lick - 1571
Well Name:	Phoenix N 1H	API Well #:	47-061-01938	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)
13.5 lb/gal PureScrub Spacer w/ Surfactant	+7.0 PPB NFP-703+5.0 PPB NSU-888+2.0 PPB NRT-221		13.5		5.65	26.47	80.00	-	
14.5 lb/gal Cement	50 % NCM-956+50 % NPZ-010 +0.2 % NFP-703+0.1 % NAS-504+0.2 % NRT-213+0.2 % NFL-549+0.2 % NTC-405	4405	14.5		1.12	4.65	882.52	4,955.38	468
Sugar Water Displacement	+5.0 PPB NRT-215					-	20.00	-	
Fresh Water Displacement						-	495.04	-	
						-		-	
						-		-	
						-		-	
						-		-	
						-		-	
Displacement Chemicals:									

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OPEN HOLE DATA

8.75 in. O.H. 2,800 to 8,679 ft
8.5 in. O.H. 8,679 to 23,227 ft

Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.
55.0 °F	55.0 °F	59.0 °F	63.4 °F		

TUBULAR DATA

5.5 in. 20#, (0 to 23,227 ft)

SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
5.5" 20#	BTC	23227	P-110	4.778	12640	11080

PREVIOUS CASING DATA

9.625 in. 36# (0 to 2,800 ft)

PERFORATED INTERVAL DATA

TOP	BTM	SPF	SIZE

CASING EQUIPMENT DEPTHS

SHOE	FLOAT	STAGE	ACP
22976	22972		

WELL FLUID TYPE	WELL FLUID DENSITY	DISPLACEMENT FLUID VOLUME	DISPLACEMENT FLUID TYPE	DISPLACEMENT FLUID DENSITY	DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
OBM	12.8 ppg	510 bbl	H2O	8.3 ppg	2471		4200	<200	7	56.4 °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)
Yes	3,700.00	Y			2,096	Yes	5,200.00	No		No	32

Comments/Additional Details:

Plug landed 15bbls early, about 675.7' inside casing. Belived it landed early due to operator filling tanks high and sucking low. Did not have any interface returned to surface.

Anthony Barbara — Service Supervisor

19-Oct-23 — Date

06/06/2025

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:	47-061-01938-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	PHOENIX 1H
Latitude:	39.641167
Longitude:	-80.272417
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	7700
Total Base Water Volume (gal)*:	28953624
Total Base Non Water Volume:	0

FracFocus
Chemical Disclosure Registry

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	88.03089	None
			Crystalline Silica in the form of Quartz	14808-60-7	99.90000	11.86500	None
			Acrylamide-Chloride Salt of Trimethylammonio-	69418-26-4	40.00000	0.02239	None

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			Ethyl Acrylate Copolymer				
			Alkanes, C12-26-Branched and Linear	90622-53-0	40.00000	0.02239	None
			Hydrogen chloride	7647-01-0	28.00000	0.00970	None
			Glutaraldehyde	111-30-8	20.00000	0.00445	None
			Ethoxylated Alcohols (C12-16)	68551-12-2	5.00000	0.00280	None
			AA/Maleic Anhydride Co-polymer	9003-04-7	5.00000	0.00188	None
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00188	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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