

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

RECEIVED
Office of Oil and Gas
MAR 17 2022
WV Department of
Environmental Protection

API 47-061-01868 County Monongalia District Clay
Quad Blacksville Pad Name Bunner Field/Pool Name _____
Farm name Patricia A. Bunner Well Number 2H
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 4390589.8 Easting 567106.0
Landing Point of Curve Northing 4390318.5 Easting 566992.9
Bottom Hole Northing 4386422.3 Easting 569755.1

Elevation (ft) 1,277' 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 3/01/2021 Date drilling commenced 5/23/2021 Date drilling ceased 6/7/2021
Date completion activities began 8/18/2021 Date completion activities ceased 10/7/2021
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 1,150' Open mine(s) (Y/N) depths NA
Salt water depth(s) ft 1,359' Void(s) encountered (Y/N) depths NA
Coal depth(s) ft 865' Cavern(s) encountered (Y/N) depths NA
Is coal being mined in area (Y/N) N

Reviewed by: _____

Reviewed

Kenneth Reynolds 8-22-2022

09/02/2022

API 47-061 - 01868

Farm name Patricia A. Bunner

Well number 2H

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"	75'	N			
Surface	17-1/2"	13-3/8"	1,247	N	54.5	NA	Y, 49 bbl
Coal							
Intermediate 1	12-3/8"	9-5/8"	2,492'	N	36	NA	Y, 12 bbl
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	24,265'	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	Type 1	36					48
Surface	Class A	1,065	15.6	1.20	1,274	CTS	8
Coal							
Intermediate 1	Class A	850	15.6	1.19	1,009	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Poz	4,550	14.5	1.16	5,270	1,951'	48
Tubing							

Drillers TD (ft) 24,286'

Loggers TD (ft) 24,256'

Deepest formation penetrated Marcellus

Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) 5,375'

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 _____

Bunner 2H Perforation Summary

Stage Number	Report Date	Total Shots	Cluster 1 Top TD	Cluster 5 Bottom TD
1	08/24/21	0	0	24,154
2	08/24/21	40	24,116	23,978
3	08/25/21	40	23,941	23,804
4	08/25/21	40	23,767	23,629
5	08/25/21	40	23,592	23,455
6	08/26/21	40	23,418	23,280
7	08/26/21	40	23,243	23,106
8	08/27/21	40	23,069	22,931
9	08/28/21	40	22,894	22,757
10	08/28/21	40	22,720	22,582
11	08/29/21	40	22,545	22,408
12	08/29/21	40	22,545	22,408
13	08/31/21	40	22,196	22,059
14	08/31/21	40	22,022	21,884
15	08/31/21	40	21,847	21,710
16	09/01/21	40	21,673	21,535
17	09/02/21	40	21,499	21,361
18	09/02/21	40	21,324	21,187
19	09/03/21	40	21,150	21,012
20	09/04/21	40	20,975	20,838
21	09/05/21	40	20,801	20,663
22	09/05/21	40	20,626	20,489
23	09/06/21	40	20,452	20,314
24	09/06/21	40	20,277	20,140
25	09/07/21	40	20,103	19,965
26	09/07/21	40	19,928	19,791
27	09/08/21	40	19,754	19,616
28	09/08/21	40	19,579	19,442
29	09/09/21	40	19,405	19,267
30	09/09/21	40	19,230	19,093
31	09/10/21	40	19,056	18,918
32	09/10/21	40	18,882	18,744
33	09/11/21	40	18,707	18,569
34	09/11/21	40	18,533	18,395
35	09/12/21	40	18,346	18,221
36	09/12/21	40	18,184	18,046
37	09/13/21	40	18,009	17,872
38	09/14/21	40	17,835	17,697
39	09/14/21	40	17,660	17,523
40	09/15/21	40	17,486	17,348
41	09/15/21	40	17,311	17,129
42	09/16/21	40	17,137	16,999
43	09/16/21	40	16,962	16,825
44	09/16/21	40	16,788	16,650
45	09/17/21	40	16,613	16,476
46	09/17/21	40	16,439	16,301

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47	09/18/21	40	16,264	16,127
48	09/18/21	40	16,090	15,952
49	09/19/21	40	15,916	15,778
50	09/19/21	40	15,741	15,603
51	09/20/21	40	15,567	15,429
52	09/20/21	40	15,392	15,255
53	09/21/21	40	15,218	15,080
54	09/21/21	40	15,043	14,906
55	09/22/21	40	14,869	14,731
56	09/22/21	40	14,694	14,557
57	09/23/21	40	14,520	14,382
58	09/24/21	40	14,345	14,208
59	09/24/21	40	14,171	14,033
60	09/25/21	40	13,996	13,859
61	09/25/21	40	13,822	13,684
62	09/26/21	40	13,647	13,510
63	09/26/21	40	13,473	13,335
64	09/27/21	40	13,298	13,161
65	09/27/21	40	13,124	12,986
66	09/28/21	40	12,950	12,812
67	09/28/21	40	12,775	12,637
68	09/29/21	40	12,601	12,463
69	09/29/21	40	12,426	12,289
70	09/30/21	40	12,252	12,114
71	09/30/21	40	12,077	11,940
72	10/01/21	40	11,903	11,765
73	10/01/21	40	11,728	11,591
74	10/01/21	40	11,554	11,416
75	10/02/21	40	11,379	11,242
76	10/03/21	40	11,205	11,067
77	10/03/21	40	11,030	10,893
78	10/03/21	40	10,856	10,718
79	10/04/21	40	10,681	10,544
80	10/04/21	40	10,507	10,369
81	10/04/21	40	10,332	10,195
82	10/05/21	40	10,158	10,020
83	10/05/21	40	9,984	9,846
84	10/05/21	40	9,809	9,671
85	10/06/21	40	9,635	9,497
86	10/06/21	40	9,460	9,323
87	10/06/21	40	9,286	9,148
88	10/07/21	40	9,111	8,974
89	10/07/21	40	8,937	8,799

Bunner 2H 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	08/24/21	5,410	8,524	9,316	88	642	7,454	306,760	538
2	08/24/21	5,948	6,205	9,560	87	23	8,256	373,800	538
3	08/25/21	5,419	7,252	9,607	86	569	8,776	378,960	531
4	08/25/21	5,649	6,770	9,704	90	28	8,217	376,910	529
5	08/25/21	5,782	7,381	9,925	87	76	8,337	365,760	524
6	08/26/21	6,099	7,073	9,835	88	18	8,182	375,620	522
7	08/26/21	6,379	7,716	9,958	89	51	8,349	375,700	517
8	08/27/21	5,314	7,371	9,592	88	7	8,049	375,830	515
9	08/28/21	6,007	7,525	9,884	90	51	8,184	370,000	507
10	08/28/21	5,966	7,459	9,876	90	11	8,064	381,000	505
11	08/29/21	6,352	7,537	9,762	88	20	8,009	381,860	505
12	08/29/21	5,631	7,284	9,994	88	50	8,061	375,900	498
13	08/31/21	6,122	7,785	9,774	85	12	7,952	381,060	493
14	08/31/21	6,150	7,197	9,833	89	9	7,743	371,220	482
15	08/31/21	5,934	7,560	10,010	86	50	8,322	379,540	486
16	09/01/21	6,269	7,275	9,751	86	7	8,160	377,980	485
17	09/02/21	5,121	7,551	9,854	86	50	8,153	374,580	476
18	09/02/21	5,323	6,944	9,903	90	23	7,917	369,300	474
19	09/03/21	5,516	7,164	9,815	87	23	7,911	373,360	471
20	09/04/21	5,594	7,270	9,892	89	23	7,923	379,420	467
21	09/05/21	5,024	6,765	9,581	84	20	7,958	372,740	462
22	09/05/21	5,447	7,114	9,828	88	27	8,054	380,940	458
23	09/06/21	5,305	7,105	9,721	86	22	8,004	370,820	455
24	09/06/21	5,291	7,045	9,813	86	31	8,025	381,940	450
25	09/07/21	4,960	5,130	9,649	87	20	8,084	380,640	445
26	09/07/21	5,410	7,408	9,745	90	20	8,086	378,880	445
27	09/08/21	5,539	6,990	9,702	88	20	8,242	387,740	438
28	09/08/21	5,277	7,371	9,684	91	35	7,978	361,100	438
29	09/09/21	5,672	6,921	9,722	90	28	8,249	375,900	431
30	09/09/21	5,865	7,900	9,743	90	429	8,248	366,960	426
31	09/10/21	5,732	7,137	9,652	90	17	8,125	378,100	424
32	09/10/21	5,534	7,638	9,524	91	18	8,106	378,980	419
33	09/11/21	6,076	7,274	9,645	91	24	8,067	379,220	415
34	09/11/21	6,081	7,197	9,679	90	17	8,014	382,560	412
35	09/12/21	5,704	7,518	9,603	91	20	9,164	381,060	408
36	09/12/21	5,401	7,807	9,607	90	18	7,942	372,220	405
37	09/13/21	5,557	8,005	9,655	92	26	8,057	383,080	400
38	09/14/21	5,447	8,469	9,497	90	69	8,143	383,040	395
39	09/14/21	5,805	7,776	9,581	92	429	8,421	375,200	413
40	09/15/21	6,085	7,624	9,137	90	15	8,123	384,300	395
41	09/15/21	6,274	7,224	9,369	92	27	8,058	375,420	384
42	09/16/21	6,159	7,578	9,455	89	16	7,927	371,680	383
43	09/16/21	5,599	6,930	9,136	92	28	8,046	383,360	376
44	09/16/21	5,741	7,624	9,133	88	18	8,005	376,960	385

09/02/2022

Bunner 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	280	Sand/silt
silt/shale	280	520	silt/shale
sandstone	520	590	sandstone
coal	530	533	coal
coal	580	584	coal
sandstone	590	680	sandstone
siltstone/sandstone	680	715	siltstone/sandstone
sandstone/siltstone	715	767	sandstone/siltstone
sandstone/limestone	767	800	sandstone/limestone
Limestone/sandstone/shale	800	865	Limestone/sandstone/shale
Pittsburgh coal	865	873	Pittsburgh coal
Limestone/siltstone	873	910	Limestone/siltstone
Limestone	910	950	Limestone
sandstone/siltstone	950	974	sandstone/siltstone
coal	974	978	coal
sandstone/siltstone	978	1000	sandstone/siltstone
Limestone	1000	1040	Limestone
Limestone/siltstone	1040	1063	Limestone/siltstone
coal	1063	1066	coal
Limestone/siltstone	1066	1090	Limestone/siltstone
Maxon	1090	1110	Maxon
Limestone/siltstone	1110	1220	Limestone/siltstone
Red Rock/siltstone/limestone	1220	1440	Red Rock/siltstone/limestone
Limestone/siltstone	1440	1610	Limestone/siltstone
sandstone/siltstone	1610	2080	sandstone/siltstone
Little Lime	2080	2140	Little Lime
Big Lime	2140	2250	Big Lime
siltstone/sandstone	2250	2320	siltstone/sandstone
Big Injun	2320	2410	Big Injun
Gantz	2410	2420	Gantz
Sand/shale	2420	5560	Sand/shale
gray shale/siltstone	5560	7705	gray shale/siltstone
Middlesex	7395	7646	Middlesex
Burkett	7646	7819	Burkett
Geneseo	7819	7870	Geneseo
Tully	7870	7923	Tully
Hamilton	7923	8026	Hamilton
Marcellus	8026	TD	Marcellus

Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	8/23/2021
Job End Date:	10/7/2021
State:	West Virginia
County:	Monongalia
API Number:	47-061-01868-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Bunner 2H
Latitude:	39.66248600
Longitude:	-80.21726800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	8,116
Total Base Water Volume (gal):	31,324,898
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 LLC	Carrier/Base Fluid	Water	7732-18-5	100.00000	88.40730	
Sand	U.S. Well Services	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.31761	
HCL Acid (5% to 7.5%)	U.S. Well Services	Bulk Acid	Water	7732-18-5	95.00000	0.16741	
			Hydrogen Chloride	7647-01-0	7.50000	0.01535	
Clearal 268	U.S. Well Services	Anti-Bacterial Agent	Non-hazardous substances	Proprietary	90.00000	0.02638	
			Glutaraldehyde	111-30-8	20.00000	0.00621	
			Alkyl dimethyl benzyl ammonium chloride	68391-01-5	3.00000	0.00088	
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00088	
StimSTREAM SC-405	ChemStream, INC.	Scale Inhibitor	Non-hazardous substances	Proprietary	70.00000	0.02241	
			Diethylenetriamine penta (methylene phosphonic acid) (DTPMP)	15827-60-8	10.00000	0.00320	

			Citric acid	77-92-9	10.00000	0.00320
			2-Phosphono-1,2,4-butane-1,3-dicarboxylic acid (PBTC)	37971-36-1	10.00000	0.00320
Alphastim C1500+	U.S. Well Services	Friction Reducer				
			Butene, homopolymer	9003-29-6	25.00000	0.01220
			Alkanes, C16-20-iso-	90622-59-6	25.00000	0.01220
			Ethoxylated alcohols (C12-18)	68213-23-0	3.00000	0.00146
Alphainhibit	U.S. Well Services	Acid Corrosion Inhibitor				
			Ethylene glycol	107-21-1	40.00000	0.00005
			Cinnamaldehyde	104-55-2	20.00000	0.00002
			Formic acid	64-18-6	20.00000	0.00002
			Butyl cellosolve	111-76-2	20.00000	0.00002
			Polyether	60828-78-6	10.00000	0.00001
			Acetophenone,thiourea,formaldehyde polymer	68527-49-1	5.00000	0.00000

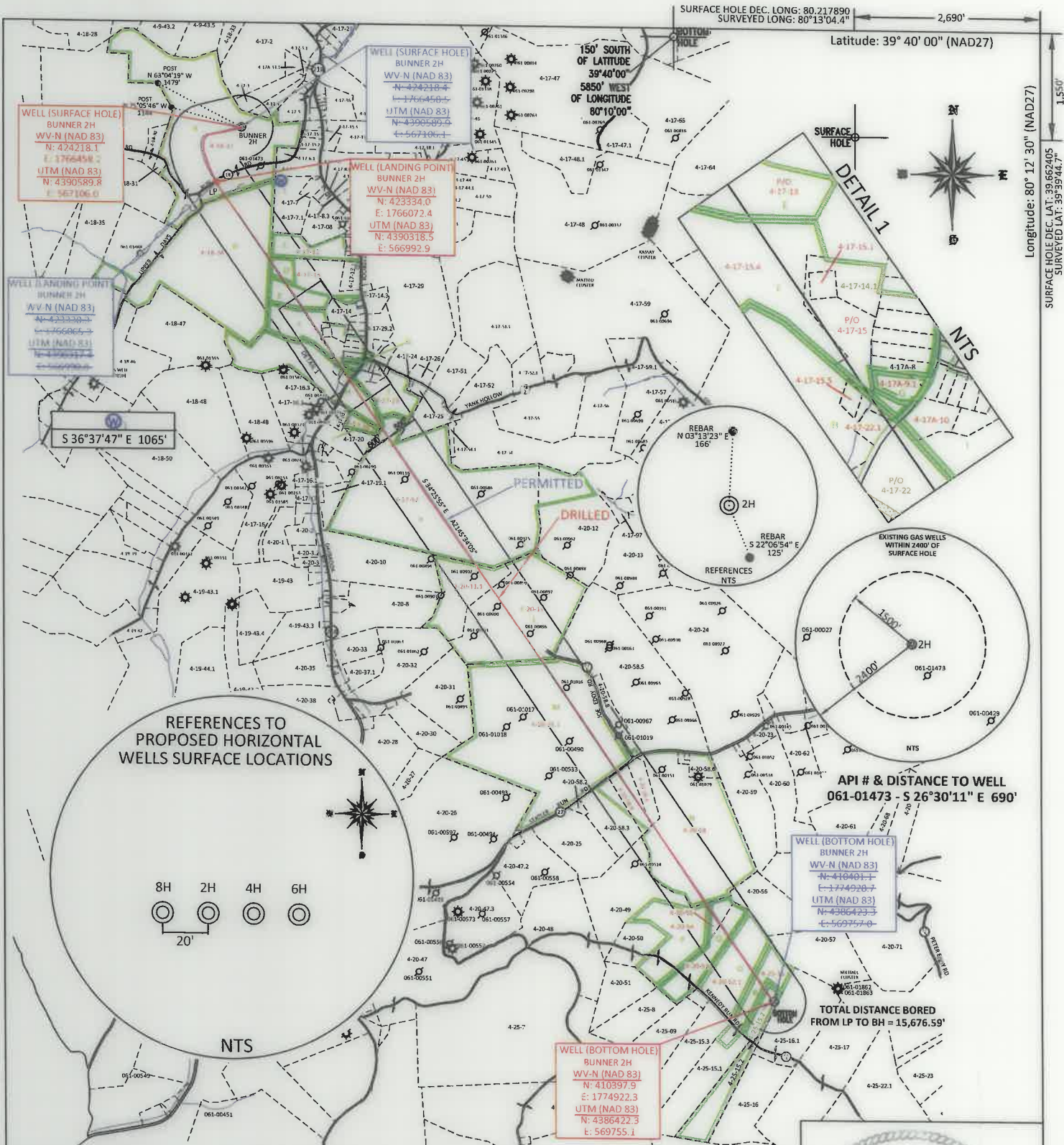
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



FILE #: NEE14
 DRAWING #: 2948
 SCALE: PLAT: 1" = 2200'
 TICK MARK: 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 WYDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304

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

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV
 SURFACE OWNER: PATRICIA A. BUNNER ACREAGE: 94.72 +/-
 OIL & GAS ROYALTY OWNER: PATRICIA BUNNER, et al ACREAGE: 758.708 **09/02/2022**
 LEASE NUMBERS:

DATE: MARCH 11, 2022
 OPERATOR'S WELL #: BUNNER 2H
 API WELL #: 47 STATE 61 COUNTY 01868 PERMIT
 AS-BUILT ELEVATION: 1277.25'

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

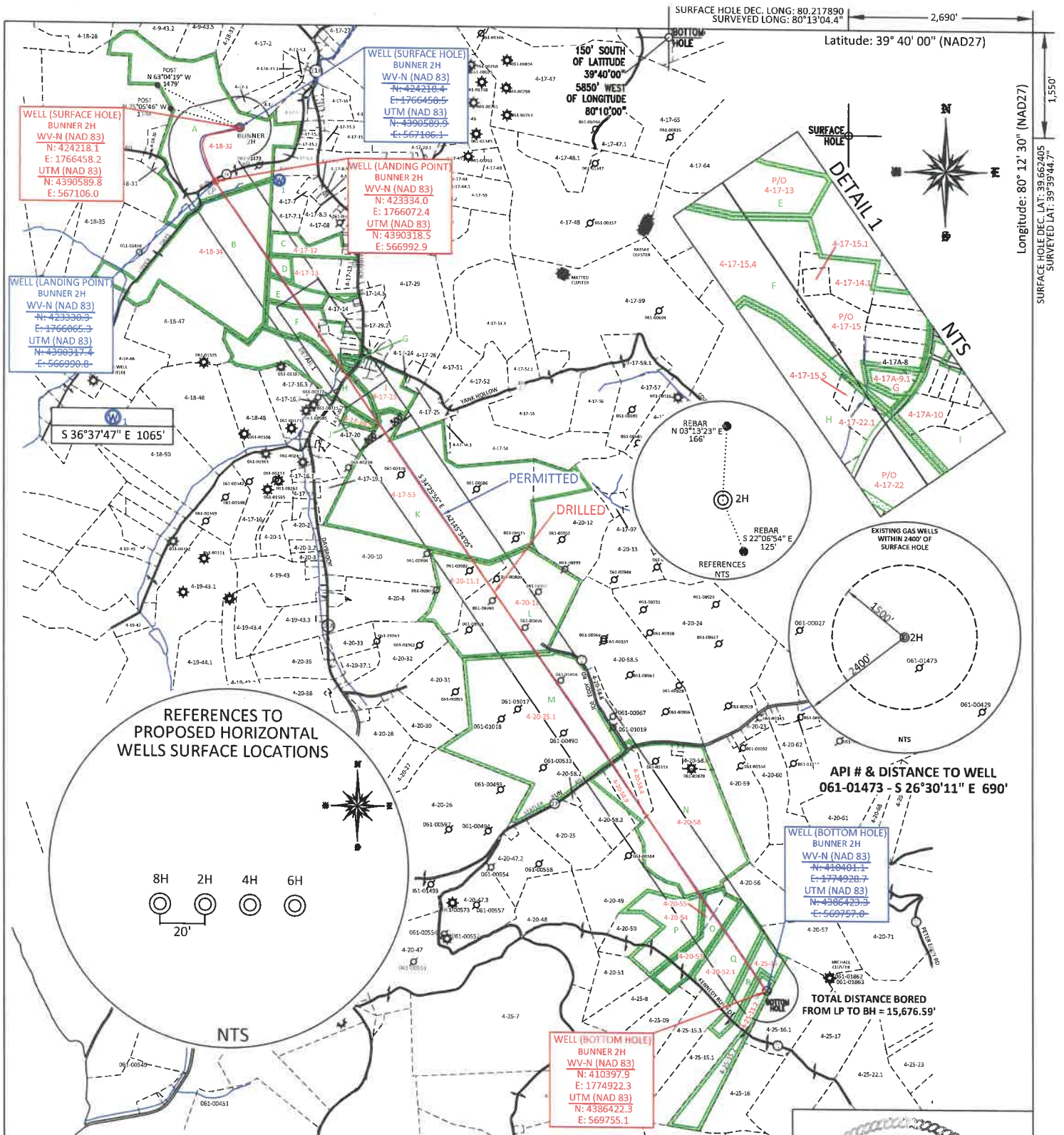
TARGET FORMATION: MARCELLUS DRILLED DEPTH: TVD: 8,116' TMD: 24,286'
 WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-18-32	PATRICIA A. BUNNER
4-18-34	GORDON PROPERTIES LLC
4-17-12	FREDDIE W. EDDY II & SALLY L. EDDY
4-17-13	HARRY D. HAMILTON (LIFE - FRANCES H. HAMILTON)
4-17-15.4	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-15.1	ADAM WILLIAMS TRUST
4-17-15.5	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-14.1	CAROL A. HALLER
4-17-22.1	JACK R. & JUDY ROGERS
4-17-15	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-22	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-20.2	GARY & JANET SHRIVER
4-17A-9.1	GARY D. YOST (LIFE - ELLEN RUTH YOST)
4-17A-10	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-23	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-53	MARY D. & WILLIAM L. & LINDSAY J. & GEOGIE E. TENNANT
4-20-11.1	M3 APPALACHIA GATHERING LLC
4-20-11	HERBERT EARL HAMILTON
4-20-25.1	RONALD W & SHELIA A COSNER (DD- SHERRY COSNER-MARENTAY)
4-20-58.4	BONNIE JOANN RONK
4-20-58.9	JOSHUA & SAMUEL A HOLMES
4-20-58	BRIAN KYLE LEMLEY
4-20-55	UNITED STATES OF AMERICA
4-20-52.1	MARION A & ODRA R MITCHELL
4-20-53	UNITED STATES OF AMERICA
4-20-54	DOROTHY WEST ESTATE ET AL
4-25-15	PEGGY SUE & WARREN FLOYD CHINNICK
4-25-15.2	ZACHARY B & DELLA M JOHNSON

LEASE INDEX			
A	WV-061-004154-001	K	WV-061-003539-003
B	WV-061-000683-120	L	WV-061-001052-002
C	WV-061-004249-001	M	WV-061-0005714-001
D	WV-061-003298-001	N	WV-061-005416-001
E	WV-061-005270-037	O	WV-061-005551-002
F	WV-061-003325-011	P	WV-061-004555-004
G	WV-061-003325-011	Q	WV-061-004235-008
H	WV-061-003325-011	R	WV-061-004235-008
I	WV-061-005195-002	S	WV-061-004504-001
J	WV-061-003261-001		

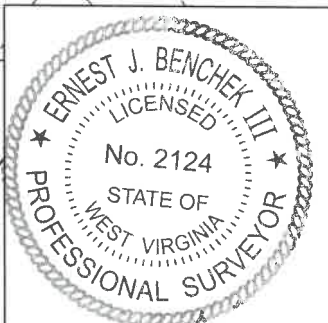
09/02/2022

FILE #: <u>NEE14</u>	DATE: <u>MARCH 11, 2022</u>
DRAWING #: <u>2948</u>	OPERATOR'S WELL #: <u>BUNNER 2H</u>
SCALE: <u>N/A</u>	API WELL #: <u>47</u> <u>61</u> <u>01868</u> STATE COUNTY PERMIT



FILE #: NEE14
 DRAWING #: 2948
 SCALE: PLAT: 1" = 2200'
TICK MARK: 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: DUNKARD CREEK
 COUNTY/DISTRICT: MONONGALIA / CLAY
 SURFACE OWNER: PATRICIA A. BUNNER
 OIL & GAS ROYALTY OWNER: PATRICIA BUNNER, et al
 LEASE NUMBERS: _____

DATE: MARCH 11, 2022
 OPERATOR'S WELL #: BUNNER 2H
 API WELL #: 47 61 01868
 STATE COUNTY PERMIT
 AS-BUILT
 ELEVATION: 1277.25'

QUADRANGLE: BLACKSVILLE, WV
 ACREAGE: 94.72 +/-
 ACREAGE: 758.708 +/- **09/02/2022**

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: 8,116' TMD: 24,286'
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

PROPERTY OWNER INDEX	
4-18-32	PATRICIA A. BUNNER
4-18-34	GORDON PROPERTIES LLC
4-17-12	FREDDIE W. EDDY II & SALLY L. EDDY
4-17-13	HARRY D. HAMILTON (LIFE - FRANCES H. HAMILTON)
4-17-15.4	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-15.1	ADAM WILLIAMS TRUST
4-17-15.5	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-14.1	CAROL A. HALLER
4-17-22.1	JACK R. & JUDY ROGERS
4-17-15	DANIEL S. & KIMBERLY S. BRUMMAGE
4-17-22	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-20.2	GARY & JANET SHRIVER
4-17A-9.1	GARY D. YOST (LIFE - ELLEN RUTH YOST)
4-17A-10	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-23	GARY D. YOST, KELLI D. WILSON & LORRI E. KUHN
4-17-53	MARY D. & WILLIAM L. & LINDSAY J. & GEOGIE E. TENNANT
4-20-11.1	M3 APPALACHIA GATHERING LLC
4-20-11	HERBERT EARL HAMILTON
4-20-25.1	RONALD W & SHELIA A COSNER (DD- SHERRY COSNER-MARENTAY)
4-20-58.4	BONNIE JOANN RONK
4-20-58.9	JOSHUA & SAMUEL A HOLMES
4-20-58	BRIAN KYLE LEMLEY
4-20-55	UNITED STATES OF AMERICA
4-20-52.1	MARION A & ODRA R MITCHELL
4-20-53	UNITED STATES OF AMERICA
4-20-54	DOROTHY WEST ESTATE ET AL
4-25-15	PEGGY SUE & WARREN FLOYD CHINNICK
4-25-15.2	ZACHARY B & DELLA M JOHNSON

LEASE INDEX			
A	WV-061-004154-001	K	WV-061-003539-003
B	WV-061-000683-120	L	WV-061-001052-002
C	WV-061-004249-001	M	WV-061-0005714-001
D	WV-061-003298-001	N	WV-061-005416-001
E	WV-061-005270-037	O	WV-061-005551-002
F	WV-061-003325-011	P	WV-061-004555-004
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