

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

API 47-061-01666 County Monongalia District Clay
Quad Blacksville, WV Pad Name Beach Field/Pool Name Blacksville
Farm name Nancy Kay Beach Davis and Russell C. Beach Well Number 4H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia Street 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 4395284.5 Easting 572663.6
Landing Point of Curve Northing 4395139.5 Easting 572707.1
Bottom Hole Northing 4393303.2 Easting 573815.0

Elevation (ft) 1361 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 3-13-14 Date drilling commenced 7-23-14 Date drilling ceased 10-17-14
Date completion activities began 12/7/2014 Date completion activities ceased 12/28/2014
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by [Signature]

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

Freshwater depth(s) ft 1,206' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1,550' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 300',800' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

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Environmental Protection

Reviewed by:
[Signature]
W.S. 06/05/2015
[Signature]

API 47-061 - 01666 Farm name Nancy Kay Beach Davis and Russell C. Beach Well number 4H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30	24	52'	N	N/A	N/A	Y to surface
Surface	17.5	13 3/8	1,276'	N	54.5	N/A	Y 50 BBL return
Coal							
Intermediate 1	12.25	9 5/8	2,378'	N	40	N/A	Y 17 BBL return
Intermediate 2							
Intermediate 3							
Production	8.5	5.5	15,597'	N	20	N/A	N TOC @ 650'
Tubing							
Packer type and depth set							

Comment Details All casing and cement jobs went with out issue.

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	4,500 psi ready mix	36.4		.75	27.27	CTS	48
Surface	Class A	1004	15.2	1.27	1,271	CTS	8
Coal							
Intermediate 1	Class A	807	15.2	1.26	1,074	CTS	8
Intermediate 2							
Intermediate 3							
Production	50/50 Prem Ne-1	3005	14.5	1.17	3,510	650'	48
Tubing							

Drillers TD (ft) 15,624' Loggers TD (ft) 15,599'

Deepest formation penetrated Marcellus Plug back to (ft) N/A

Plug back procedure _____

Kick off depth (ft) 6,500'

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 aprox 120'

Intermediate: bow spring centralizers every 3rd joint or aprox 120'

Production: Hard bodied spiral centralizers every other joint or aprox 80' from TD to KOP then bow spring from KOP to 9 5/8" every forth joint or aprox 140'

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 - 01666 Farm name Nancy Kay Beach Davis and Russell C. Beach Well number 4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>8108.5'</u>	<u>TVD</u>	<u>15,624'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface 4140 psi Bottom Hole _____ psi DURATION OF TEST 48 hrs
 OPEN FLOW Gas 5,688 mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		<u>See Attachment</u>

Please insert additional pages as applicable.

Drilling Contractor Pioneer 63
 Address 1250 NE Loop 410 Suite 1000 City San Antonio State TX Zip 78209
 Logging Company Baker Hughes
 Address 837 Philippi Pike City Clarksburg State WV Zip 26301
 Cementing Company Baker Hughes
 Address 837 Philippi Pike City Clarksburg State WV Zip 26301
 Stimulating Company Schlumberger
 Address 1080 US-33 City Weston State WV Zip 26452

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Please insert additional pages as applicable.
 Completed by Zack Arnold Telephone 304-203-8059
 Signature  Title General Manager - Operations Date 4/29/15

Beach 4H

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, H2S, etc)
Sand/Shale	0	50	0		sand/shale
Red Rock	50	142			red rock
Sand/Shale	142	845			sand/shale
Red Rock	845	855			red rock
Sand/Shale	855	1950			sand/shale
Red Rock	1950	1980			red rock
Sand/Shale	1980	2130			sand/shale
Little Lime	2130	2150			limestone
Big Lime	2150	2180			limestone
Sand/Shale	2180	7917			sand/shale
Geneseo	7917	7959	7943	7990	shale
Tully	7959	8005	7990	8058	limestone
Hamilton	8005	8120	8058	8239	shale
Marcellus	8120	8178	8239	8368	shale
Cherry Valley	8178	8180	8368	8382	limestone
Lower Marcellus	8180		8382		shale

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/7/2014
Job End Date:	12/28/2014
State:	West Virginia
County:	Monongalia
API Number:	47-061-01666-00-00
Operator Name:	Northeast Natural Energy LLC
Well Name and Number:	Beach 4H
Longitude:	-80.15238800
Latitude:	39.70432700
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	8,147
Total Base Water Volume (gal):	11,027,335
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
Proppant Transport	Schlumberger	Corrosion Inhibitor, AntiFoam Agent, Acid, Breaker, Gelling Agent, Friction Reducer, Iron Control Agent, Fluid Loss Additive, Propping Agent	Water (Including Mix Water Supplied by Client)* Crystalline silica Hydrochloric acid Guar gum Ammonium sulfate Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt, polymer Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate Urea Diammonium peroxodisulphate Sodium erythorbate Methanol	NA 14808-60-7 7647-01-0 9000-30-0 7783-20-2 38193-60-1 136793-29-8 57-13-6 7727-54-0 6381-77-7 67-56-1	0.001245 0.00764 0.00669 0.00258 0.00254	86.38252 13.43334 0.10393 0.03719 0.02144 0.01582 0.00170	

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			Non-crystalline silica (impurity)	7631-86-9	0.00227	0.00031
			Fatty acids, tall-oil	61790-12-3	0.00177	0.00024
			Sodium sulfate	7757-82-6	0.00178	0.00024
			Thiourea, polymer with formaldehyde and 1-phenylethanone	68527-49-1	0.00146	0.00020
			Alcohols, C14-15, ethoxylated (7EO)	68951-67-7	0.00069	0.00009
			Propargyl alcohol	107-19-7	0.00046	0.00006
			2-propanamid	79-06-1	0.00038	0.00005
			Polypropylene glycol	25322-69-4	0.00035	0.00005
			Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00020	0.00003
			Hexadec-1-ene	629-73-2	0.00015	0.00002
			Dimethyl siloxanes and silicones	63148-62-9	0.00011	0.00001
			1-Octadecene (C18)	112-88-9	0.00008	0.00001
			Formaldehyde	50-00-0	0.00001	
			Decamethyl cyclopentasiloxane	541-02-6	0.00001	
			Octamethylcyclotetrasiloxane	556-67-2	0.00001	
			Dodecamethylcyclohexasiloxane	540-97-6		
			Copper(II) sulfate	7758-98-7		
			Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	0.00002	
SC-30	X-Chem	Scale Inhibitor	Sodium Polyacrylate	2594-41-5	14.71000	
			Water	7732-18-5	85.29000	
Chlorine Dioxide	X-Chem	Microbial Control	ClO2	10049-04-4	100.00000	Gas

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)

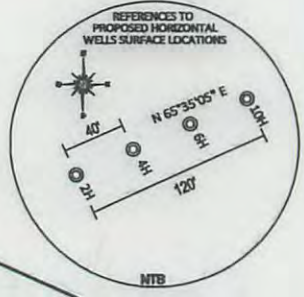
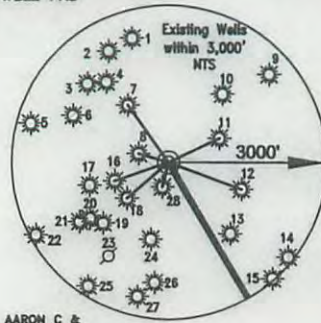
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NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD

WELL REFERENCE (API#, DISTANCE TO LATERAL)

1. 061-00125
2. 061-30121
3. 061-00126
4. 061-00134
5. 061-30187
6. 061-71252
7. 061-30151 N 39°34'37" W 1,322'
8. 061-70273 N 80°52'45" W 651'
9. 061-70075
10. 061-71226
11. 061-30151 N 66°13'21" E 976'
12. 061-71250 S 66°24'32" E 1,428'
13. 061-71256
14. 061-00766
15. 061-71260
16. 061-71254 S 69°28'27" W 1,173'
17. 061-71253
18. 061-71255 S 49°23'57" W 1,136'
19. 061-00101
20. 061-30280
21. 061-71259
22. 061-30559
23. 061-30531
24. 061-71257
25. 061-30338
26. 061-00148
27. 061-71258
28. 061-30186 S 19°46'10" W 560'



TOP HOLE (UTM 83)	N) 4395284.6
	E) 572663.5
BOTTOM HOLE (UTM 83)	N) 4393310.3
	E) 573827.2

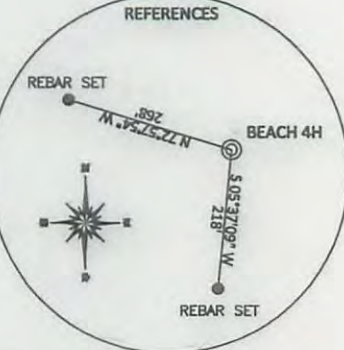
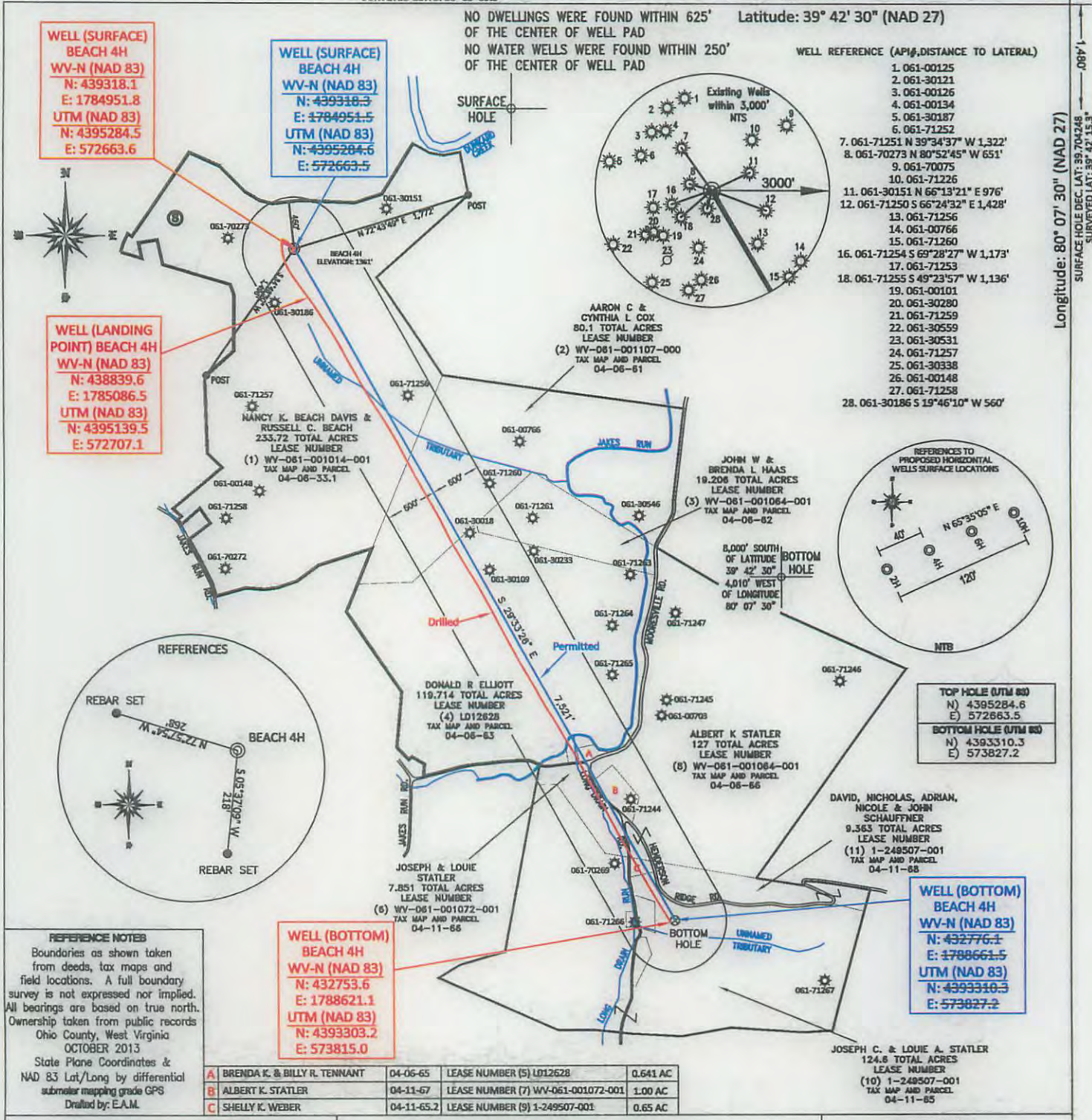
WELL (BOTTOM) BEACH 4H
WV-N (NAD 83)
N: 432776.1
E: 1788661.5
UTM (NAD 83)
N: 4393310.3
E: 573827.2

WELL (BOTTOM) BEACH 4H
WV-N (NAD 83)
N: 432753.6
E: 1788621.1
UTM (NAD 83)
N: 4393303.2
E: 573815.0

WELL (SURFACE) BEACH 4H
WV-N (NAD 83)
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E: 1784951.8
UTM (NAD 83)
N: 4395284.5
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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 Ohio County, West Virginia OCTOBER 2013 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: E.A.M.

A	BRENDA K. & BILLY R. TENNANT	04-06-65	LEASE NUMBER (5) LD12628	0.641 AC
B	ALBERT K. STATLER	04-11-67	LEASE NUMBER (7) WV-061-001072-001	1.00 AC
C	SHELLY K. WEBER	04-11-65.2	LEASE NUMBER (9) 1-249507-001	0.65 AC

FILE #: NNE009
DRAWING #: 2294
SCALE: PLAT = (1"=1400')
TICK MARK = (1"=2000')
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE SUBMETER MAPPING
OF ELEVATION: 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

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

WATERSHED: DUNKARD CREEK ELEVATION: 1361'
COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV.
SURFACE OWNER: NANCY K. BEACH DAVIS & RUSSELL C. BEACH ACREAGE: 233.72 +/-
OIL & GAS ROYALTY OWNER: TED K. MOORE, ET AL ACREAGE: 723.85 +/-

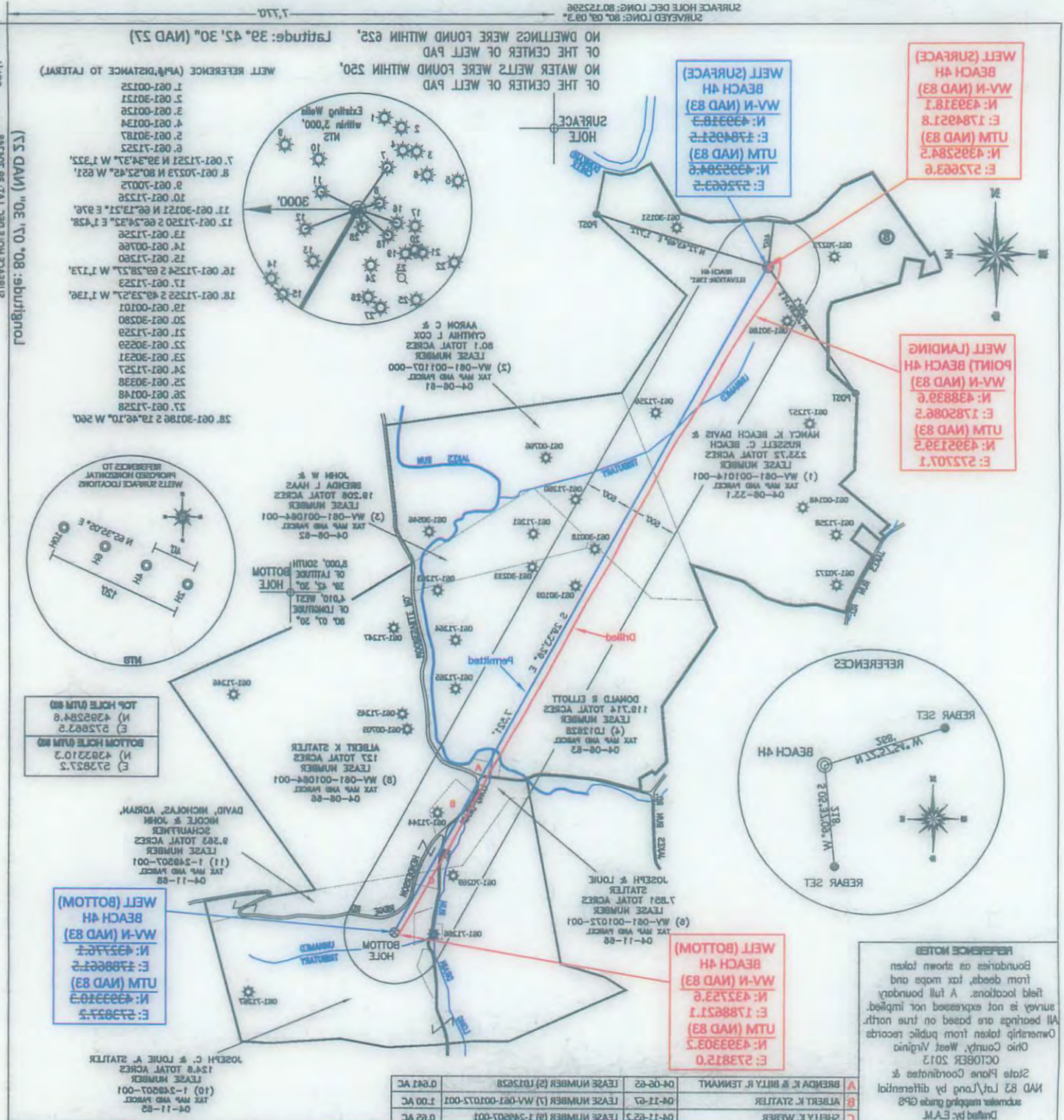
LEASE NUMBERS: _____

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 ESTIMATED DEPTH: TVD: 8,109' TMD: 15,624'
WELL OPERATOR : NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT : JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET SUITE 1200 ADDRESS: 707 VIRGINIA STREET SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: APRIL 3, 2015
OPERATOR'S WELL #: BEACH 4H AS-DRILLED PLAT
API WELL #: 47 61
STATE COUNTY PERMIT

06/05/2015



FILE #	IN008
DRAWING #	2284
SCALE:	PLAT = 1"=100' TICK MARK = 1"=200'
MINIMUM DEGREE OF ACCURACY:	1/200
PROVEN SOURCE OF ELEVATION:	GRADE GPS
<p>WATERSHED: DUNKARD CREEK</p> <p>WELL TYPE: <input type="checkbox"/> Oil <input type="checkbox"/> Waste Disposal <input type="checkbox"/> Production <input type="checkbox"/> Deep <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Liquid Injection <input type="checkbox"/> Storage <input checked="" type="checkbox"/> Shallow</p> <p>CHARLESTON, WV 25304 601 5TH STREET OFFICE OF OIL & GAS UNITED STATES TOPOGRAPHIC MAPS (+) DENOTES LOCATION OF WELL ON</p>	
DATE:	APRIL 3 2015
OPERATOR'S WELL #:	BEACH 4H AS-DRILLED PLAT
API WELL #:	47
STATE:	WEST VIRGINIA
COUNTY:	PUTNAM
PERMIT:	61
WATERSHED:	DUNKARD CREEK
COUNTY/DISTRICT:	MONONGALIA \ CLAY
OWNER:	NANCY K. BEACH DAVIS & RUSSELL C. BEACH
OIL & GAS ROYALTY OWNER:	TED K. MOORE, ET AL
LEASE NUMBERS:	
TARGET FORMATION:	MARCELLUS
WELL OPERATOR:	NORTHEAST NATURAL ENERGY LLC
ADDRESS:	707 VIRGINIA STREET SUITE 1200
CITY:	CHARLESTON
STATE:	WV
ZIP CODE:	25301
DESIGNATED AGENT:	JOHN ADAMS
ADDRESS:	707 VIRGINIA STREET SUITE 1200
CITY:	CHARLESTON
STATE:	WV
ZIP CODE:	25301
ESTIMATED DEPTH:	8' 109'
TMD:	12.624'
CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY):	
PLUG OFF FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/>	
DRILL <input checked="" type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/>	

L.L.S. #2124 : Ernest J. Benckel III
Signed: _____

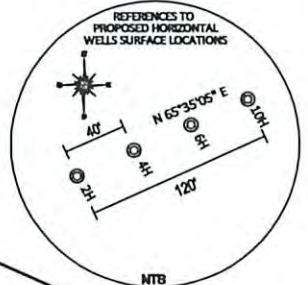
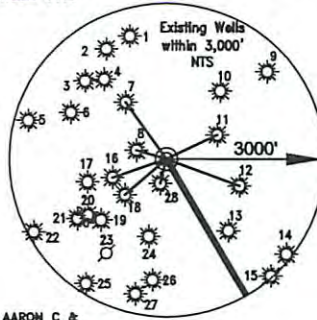
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Ernest J. Benckel III
PROFESSIONAL SURVEYOR
STATE OF WEST VIRGINIA
LICENSED
No. 2124
APRIL 3 2015

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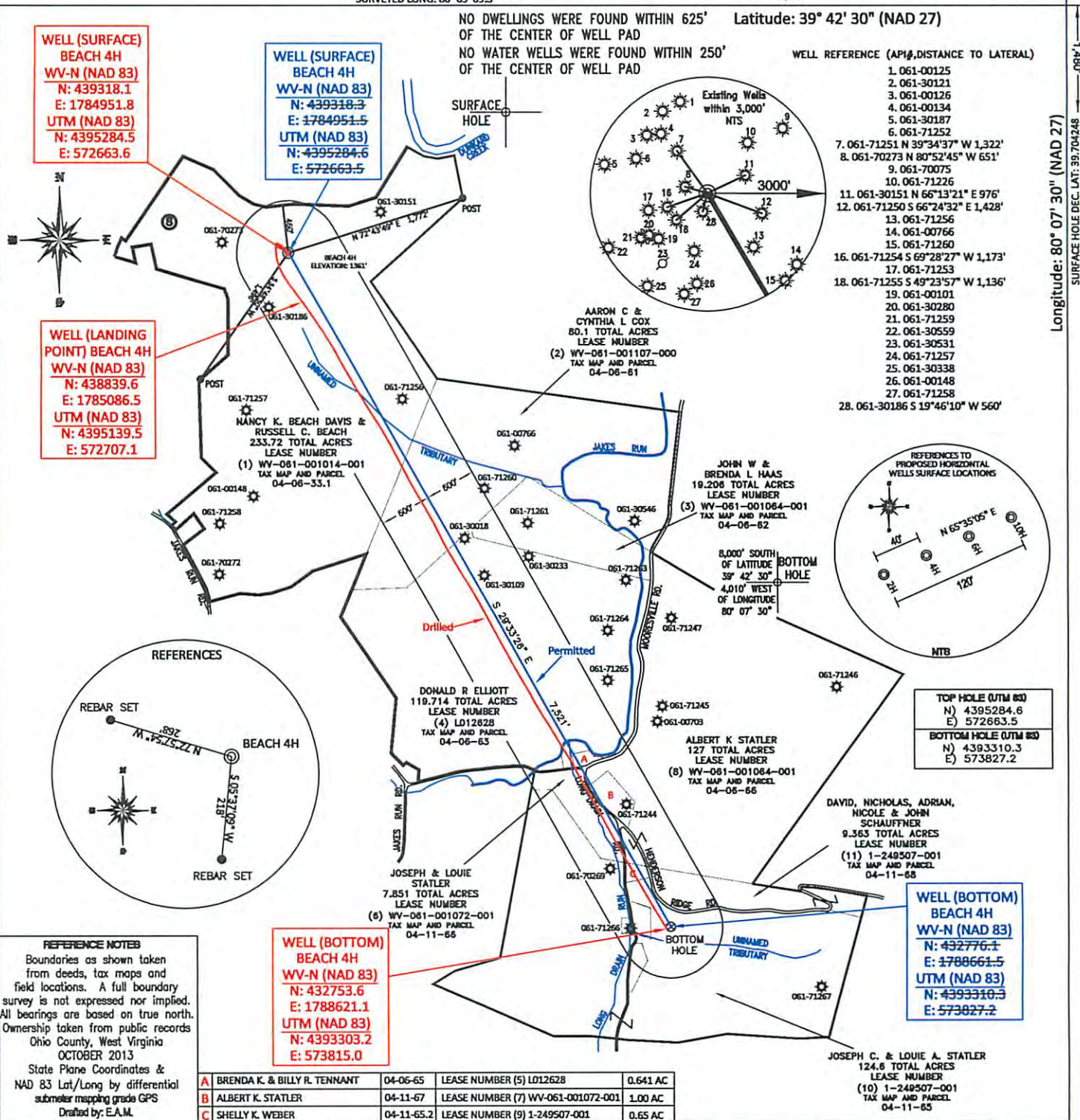
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WATERSHED: DUNKARD CREEK ELEVATION: 1361'
COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE, WV.
SURFACE OWNER: NANCY K. BEACH DAVIS & RUSSELL C. BEACH ACREAGE: 233.72 +/-
OIL & GAS ROYALTY OWNER: TED K. MOORE, ET AL ACREAGE: 723.85 +/-
LEASE 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 ESTIMATED DEPTH: TVD: 8,109' TMD: 15,624'
WELL OPERATOR : NORTHEAST NATURAL ENERGY LLC DESIGNATED AGENT : JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET SUITE 1200 ADDRESS: 707 VIRGINIA STREET SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301 CITY: CHARLESTON STATE: WV ZIP CODE: 25301

06/05/2015



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