

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

API 47-061-01684 County Monongalia District Clay
Quad Blacksville, WV Pad Name Coastal Field/Pool Name Blacksville
Farm name Coastal Forest Resources Company Well Number 3H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia St. 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 4395386.6 Easting 568200.3
Landing Point of Curve Northing 4395413.7 Easting 568049.2
Bottom Hole Northing 4397097.9 Easting 566754.6

Elevation (ft) 1,420' 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 10/28/2014 Date drilling commenced 12/5/2014 Date drilling ceased 2/24/2015
Date completion activities began N/A Date completion activities ceased N/A
Verbal plugging (Y/N) _____ 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 1,243' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 2,510' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 600', 1,200' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Received
Office of Oil & Gas
OCT 07 2015

Reviewed by:

JK

10/30/2015

API 47-061 - 01684 Farm name Coastal Forest Resources Company Well number 3H

| 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 | 50 | N | N/A | N/A | Y to surface |
| Surface | 17.5 | 13 3/8 | 1,381 | N | 54.5 | N/A | Y 35 bbls |
| Coal | | | | | | | |
| Intermediate 1 | 12.25 | 9 5/8 | 2,768 | N | 40 | N/A | Y 12 bbls |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 8.5 | 5.5 | 15,644 | N | 20 | N/A | Estimated top 2000' |
| 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 | 4,500 psi ready mix | 36.4 | | .75 | 27.27 | CTS | 48 |
| Surface | Class A | 1054 | 15.2 | 1.27 | 1,271 | CTS | 8 |
| Coal | | | | | | | |
| Intermediate 1 | Class A | 908 | 15.2 | 1.26 | 1,074 | CTS | 8 |
| Intermediate 2 | | | | | | | |
| Intermediate 3 | | | | | | | |
| Production | 5050 Premium NE - 1.3% R-3.3% MPA 170 | 3007 | 14.5 | 1.17 | 2,661 | Estimated 2,000' | 48 |
| Tubing | | | | | | | |

Drillers TD (ft) 15,685' Loggers TD (ft) 15,640'

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

Plug back procedure _____

Kick off depth (ft) 6,617'

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 bodiod 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 This well has not yet been completed.

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 - 01684

Farm name Coastal Forest Resources Company Well number 3H

PERFORATION RECORD

| Stage No. | Perforation date | Perforated from MD ft. | Perforated to MD ft. | Number of Perforations | Formation(s) |
|--|------------------|------------------------|----------------------|------------------------|--------------|
| This well has not yet been completed. | | | | | |
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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) |
|-----------|-------------------|---------------------|------------------------------|------------------------------|------------|--------------------------|------------------------|----------------------------------|
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Please insert additional pages as applicable.

API 47- 061 - 01684 Farm name Coastal Forest Resources Company Well number 3H

| PRODUCING FORMATION(S) | DEPTHS | |
|------------------------|-----------|----------------|
| Marcellus | 8,203.32' | TVD 15,665' 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 _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas _____ mcfpd Oil _____ bpd NGL _____ bpd Water _____ bpd GAS MEASURED BY
 Estimated Orifice Pilot

| LITHOLOGY/ FORMATION | TOP | BOTTOM | TOP | BOTTOM | DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC) |
|-------------------------|-------------------------|--------------------|-------------------|-------------------|--|
| | DEPTH IN FT NAME TVD | DEPTH IN FT TVD | DEPTH IN FT MD | DEPTH IN FT MD | |
| | 0 | | 0 | | Please See Attachment |
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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 _____
 Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Zack Arnold Telephone 304.203.8059
 Signature  Title General Manager - Operations Date 10/6/2015

Received
Office of Oil & Gas

OCT 07 2015

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

10/30/2015

61-01684

| 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 | 40 | | | sand/shale |
| Red Rock | 40 | 112 | | | red rock |
| Sand/Shale | 112 | 2350 | | | sand/shale |
| Limestone | 2350 | 2392 | | | limestone |
| Big Injun | 2392 | 2537 | | | sandstone |
| Shale | 2537 | 2722 | | | shale |
| Sand/Shale | 2722 | 2830 | | | sand/shale |
| Shale | 2830 | 4346 | | | shale |
| Grey Shale | 4346 | 5225 | | | shale |
| Shale | 5225 | 6550 | | | shale |
| Sandstone/Shale | 6550 | 7755 | | | sandstone/shale |
| Burkett | 7755 | 7918 | 7853 | 8041 | shale |
| Geneseo | 7918 | 7970 | 8041 | 8109 | shale |
| Tully | 7970 | 8020 | 8109 | 8171 | limestone |
| Hamilton | 8020 | 8112 | 8171 | 8397 | shale |
| Marcellus | 8112 | 8185 | 8397 | 8538 | shale |
| Cherry Valley | 8185 | 8190 | 8538 | 8540 | limestone |
| Lower Marcellus | 8190 | | 8540 | | shale |

61-01684

CEMENT JOB REPORT



| | | | | | | | | | | | | | |
|--|------------------|--|--|-------------------|---------------------|--|-------------------------------|---------------|--------------|------------------|------------|---------------|------------|
| CUSTOMER NORTHEAST NATURAL ENER | | | DATE 06-DEC-14 | | F.R. # 10011123765 | | SERV. SUPV. Charles M Gray | | | | | | |
| LEASE & WELL NAME COASTAL 3H - API 47061016880000 | | | LOCATION CLAY | | | COUNTY-PARISH-BLOCK Monongalia West Virginia | | | | | | | |
| DISTRICT Clarksburg | | | DRILLING CONTRACTOR RIG # PERFORMANCE RIG 2 | | | TYPE OF JOB Surface | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | |
| BJ Cement Plug, Rubber, Top 13-3/8 | | Float Collar, AI Flap, 13-3/8 - 8rd | | | | | | | | | | | |
| | | Float Shoe 13-3/8 - 8rd | | | | | | | | | | | |
| PHYSICAL SLURRY PROPERTIES | | | | | | | | | | | | | |
| MATERIALS FURNISHED BY BJ | | | LAB REPORT NO. | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | |
| 6% PRE FLUSH +500#GEL+ FLAKE | | | | | | | 8.43 | | | | 25 | | |
| PREMIUM NE-1 + 1% CALC | | | 0 | | | 1,054 | 15.2 | 1.25 | 5.75 | | 236 | 145.13 | |
| FRESH H2O | | | | | | | 8.34 | | | | 207 | | |
| 200 LB SUGAR | | | | | | | 0 | | | | 0 | | |
| 75 LB FLAKE | | | | | | | 0 | | | | 0 | | |
| Available Mix Water | | | 500 Bbl. | | | Available Displ. Fluid | | | 500 Bbl. | | | TOTAL | 468 145.13 |
| HOLE | | | TBG-CSG-D.P. | | | | | COLLAR DEPTHS | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | |
| 17.5 | 30 | 1420 | 12.62 | 13.38 | 54.5 | CSG | 1381 | 1381 | J-55 | 1381 | 1339 | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | | |
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. |
| 23 | 24 | 95 | CSG | 40 | 40 | | | 0 | 0 | 13.375 | 8 RD | OTHER | 0 |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI | | MAX CSG PSI | | MIX WATER | | |
| VOLUME | UOM | TYPE | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED | Operator | RATED | Operator | | | |
| 205 | BBLs | FRESH H2O | 8.34 | 480 | 0 | 0 | 0 | 0 | 2180 | 600 | TANK | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: | | | | | | | | | | | | | |
| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | | | | | | | |
| TIME HR:MIN. | PRESSURE - PSI | | RATE | Bbl. FLUID | FLUID | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | | | | | | | |
| | PIPE | ANNULUS | BPM | PUMPED | TYPE | TEST LINES 3562 PSI | | | | | | | |
| | | | | | | CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | | | | |
| 17:30 | | | | | | ARRIVE ON LOCATION (LOCATION TIME 1930) | | | | | | | |
| 20:30 | | | | | | PRE RIG IN MEETING | | | | | | | |
| 21:15 | | | | | | PRE JOB SAFETY MEETING | | | | | | | |
| 21:21 | | | | 3 | 5 H2O | LINE FILL | | | | | | | |
| 21:22 | 3562 | | | 1 | 1 H2O | PRESSURE TEST LINE TO 3562 | | | | | | | |
| 21:27 | 140 | | | 6.2 | 220 H2O | PROCESSED WATER AHEAD | | | | | | | |
| 22:06 | 146 | | | 5.2 | 25 GEL H2O | 6% PRE FLUSH + CELLO FLAKE | | | | | | | |
| 22:11 | 195 | | | 5.8 | 10 H2O | WATER SPACER | | | | | | | |
| 22:13 | 252 | | | 5.6 | 221 SLURRY | PREMIUM NE-1 +1%CALC | | | | | | | |
| 22:57 | 0 | | | 0 | 0 | SHUT DOWN RELEASE PLUG | | | | | | | |
| 22:59 | 196 | | | 7 | H2O | START DISPLACEMENT | | | | | | | |
| 23:35 | 640 | | | 0 | 205 H2O | PLUG DOWN | | | | | | | |
| 23:40 | 0 | | | 0 | 0 | CHECK FLOAT FLOAT HELD WITH 1/2 BBL BACK | | | | | | | |
| 23:41 | | | | | | PRE RIG OUT MEETING | | | | | | | |
| BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | SERVICE SUPERVISOR SIGNATURE: | | | | | | |
| <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 505 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 35 | 681 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | | | | | | | |

61-01684

CEMENT JOB REPORT



| | | | | | | | | | | | | | | |
|--|----------------|--|---------------------------|-------------------|---------------------|--|----------------------------|---------------|--------------|------------------|------------|---------------|------|--------|
| CUSTOMER NORTHEAST NATURAL ENER | | | DATE 09-DEC-14 | | F.R. # 10011124260 | | SERV. SUPV. Scott J Carson | | | | | | | |
| LEASE & WELL NAME COASTAL 3H - API 47061016840000 | | | LOCATION BLACKSVILLE | | | COUNTY-PARISH-BLOCK Monongalia West Virginia | | | | | | | | |
| DISTRICT Clarksburg | | | DRILLING CONTRACTOR RIG # | | | TYPE OF JOB Intermediate | | | | | | | | |
| SIZE & TYPE OF PLUGS | | LIST-CSG-HARDWARE | | | MECHANICAL BARRIERS | | MD | TVD | HANGER TYPES | | MD | TVD | | |
| BJ Cement Plug, Rubber, Top 9-5/8 | | Guide Shoe, Cement Nose, 9-5/8 i Float Collar, AI Flap, 9-5/8 - 8rd | | | NONE | | | | NONE | | | | | |
| MATERIALS FURNISHED BY BJ | | | | LAB REPORT NO. | | PHYSICAL SLURRY PROPERTIES | | | | | | | | |
| | | | | | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER | | |
| PROCESSED H2O | | | | | | | 8.4 | | | | 210 | | | |
| GEL/FLAKE | | | | | | | 8.45 | | | | 25 | | | |
| H2O | | | | | | | 8.34 | | | | 10 | | | |
| PREMIUM NE-1 | | | | N/A | | 908 | 15.2 | 1.24 | 5.74 | 04:10 | 200 | 123.77 | | |
| H2O | | | | | | | 8.34 | | | | 206 | | | |
| 200# SUGAR ON SIDE | | | | | | | 0 | | | | 0 | | | |
| Available Mix Water 500 | | | Bbl. | | | Available Displ. Fluid 500 | | | Bbl. | | | TOTAL | 651 | 123.77 |
| HOLE | | | TBG-CSG-D.P. | | | | | COLLAR DEPTHS | | | | | | |
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE | | |
| 12.25 | 30 | 2830 | 8.835 | 9.625 | 40 | CSG | 2768 | 2768 | J-55 | 2768 | 2721 | 1 | | |
| LAST CASING | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | | | |
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. | |
| 13. | 13.38 | 55. | CSG | 1381 | 1381 | NO PACKER | | | | 9.625 | 8RD | OTHER | 0 | |
| 18. | 17.5 | | OPEN HOLE | 1400 | 1400 | | | | | | | | | |
| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI | | MAX CSG PSI | | MIX WATER | | | |
| VOLUME | UOM | TYPE | | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED | Operator | RATED | Operator | | | |
| 206 | BBLS | H2O | | 8.34 | 970 | 0 | 0 | 0 | 0 | 4600 | 2400 | TANK | | |
| EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: | | | | | | | | | | | | | | |
| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | | | | | | | | |
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | | | | | | | | |
| | PIPE | ANNULUS | | | | TEST LINES 4200 PSI | | | | | | | | |
| | | | | | | CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | | | | | | | |
| 12:30 | | | | | | ARRIVE AT LOCATION 12-09-2014 LOCATION TIME 14:00 | | | | | | | | |
| 18:00 | | | | | | PRE-JOB RIG-N SAFETY MEETING | | | | | | | | |
| 18:15 | | | | | | RIG-IN | | | | | | | | |
| 20:15 | | | | | | PRE-JOB SAFETY MEETING | | | | | | | | |
| 20:47 | 100 | | 5 | 5 | H2O | LINE-FILL | | | | | | | | |
| 20:49 | 0 | | | | H2O | PRESSURE TEST 4200# | | | | | | | | |
| 20:59 | 220 | | 7 | 205 | PROCESS | WATER AHEAD | | | | | | | | |
| 21:28 | 160 | | 5.2 | 25 | GEL/FLAKE | PRE-FLUSH | | | | | | | | |
| 21:34 | 150 | | 5.1 | 10 | H2O | SPACER | | | | | | | | |
| 21:36 | 350 | | 5.3 | 191 | SLURRY | 15.2# PREMIUM NE-1 +FLAKE | | | | | | | | |
| 22:12 | 0 | | | | | SHUT-DOWN RELEASE PLUG | | | | | | | | |
| 22:13 | 650 | | 6.3 | 209 | H2O | START DISPLACEMENT | | | | | | | | |
| 22:46 | 1460 | | | | | SHUT-DOWN | | | | | | | | |
| 22:48 | 0 | | | | | BLEED-OFF PRESSURE | | | | | | | | |
| 22:50 | | | | | | CLOSE-IN CEMENT HEAD | | | | | | | | |
| 22:55 | | | | | | POST-JOB RIG-OUT SAFETY MEETING | | | | | | | | |

61-01684

CEMENT JOB REPORT



| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | | |
|----------------------|--|---------------------------------|--|--|----------------------------------|--|--|--------------------------------------|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | | |
| | PIPE | ANNULUS | | | | TEST LINES | 4200 PSI | |
| 23:05 | | | | | | CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | | |
| | | | | | | RIG-OUT | | |
| | BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | SERVICE SUPERVISOR SIGNATURE: |
| | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 970 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | 12 | 647 | 0 | <input checked="" type="checkbox"/> Y <input type="checkbox"/> N | |

61-01684

CEMENT JOB REPORT



| | | | |
|--|---|-----------------------|---|
| CUSTOMER NORTHEAST NATURAL ENER | DATE 25-FEB-15 | F.R. # 10011140944 | SERV. SUPV. Kevin Paugh |
| LEASE & WELL NAME COASTAL 3H - API 47061016840000 | LOCATION CLAY | | COUNTY-PARISH-BLOCK Monongalia West Virginia |
| DISTRICT Clarksburg | DRILLING CONTRACTOR RIG # PIONEER 63 | | TYPE OF JOB Long String |

| SIZE & TYPE OF PLUGS | LIST-CSG-HARDWARE | MECHANICAL BARRIERS | MD | TVD | HANGER TYPES | MD | TVD |
|-----------------------------------|--|---------------------|----|-----|--------------|----|-----|
| Latch Down Plug & Assembly, 5-1/2 | Float Collar, Auto Fill, 5-1/2 - BUTTR | | | | | | |

| MATERIALS FURNISHED BY BJ | LAB REPORT NO. | PHYSICAL SLURRY PROPERTIES | | | | | | |
|---------------------------------------|----------------|--|----------------|---------------|-----------|------------------|-------------|---------------|
| | | SACKS OF CEMENT | SLURRY WGT PPG | SLURRY YLD FT | WATER GPS | PUMP TIME HR:MIN | Bbl SLURRY | Bbl MIX WATER |
| ULTRABOND | | | 13.3 | | | | 50 | |
| MULTIBOND | | 223 | 13 | 1.26 | 5.85 | | 50 | 31.03 |
| 50/50 PREM NE-1 +.35% R-3+.2% MPA-170 | | 3,007 | 14.5 | 1.17 | 5.14 | | 626 | 367.65 |
| H2O +100LB SUGAR | | | 8.34 | | | | 347 | |
| 100 LB SUGAR | | | 0 | | | | 0 | |
| Available Mix Water <u>1200</u> Bbl. | | Available Displ. Fluid <u>500</u> Bbl. | | TOTAL | | | 1073 | 398.69 |

| HOLE | | | TBG-CSG-D.P. | | | | | | COLLAR DEPTHS | | | |
|------|----------|-------|--------------|-----|------|------|-------|------|---------------|------|-------|-------|
| SIZE | % EXCESS | DEPTH | ID | OD | WGT. | TYPE | MD | TVD | GRADE | SHOE | FLOAT | STAGE |
| 8.5 | 10 | 15665 | 4.778 | 5.5 | 20 | CSG | 15665 | 8203 | J-55 | | | |

| LAST CASING | | | | PKR-CMT RET-BR PL-LINER | | | PERF. DEPTH | | TOP CONN | | WELL FLUID | | |
|-------------|-------|-----|------|-------------------------|------|--------------|-------------|-----|----------|------|------------|---------------|------|
| ID | OD | WGT | TYPE | MD | TVD | BRAND & TYPE | DEPTH | TOP | BTM | SIZE | THREAD | TYPE | WGT. |
| 8.8 | 9.625 | 40 | CSG | 2768 | 2768 | | | | | 5.5 | BUTT | SYNTHETIC MUD | 12.5 |

| DISPL. VOLUME | | DISPL. FLUID | | CAL. PSI | CAL. MAX PSI | OP. MAX | MAX TBG PSI | | MAX CSG PSI | | MIX WATER |
|---------------|------|----------------------------------|-----------|-----------|--------------|---------|-------------|----------|-------------|----------|-----------|
| VOLUME | UOM | TYPE | WGT. | BUMP PLUG | TO REV. | SQ. PSI | RATED | Operator | RATED | Operator | TANK |
| 355 | BBLS | H2O +100LB SUGAR 100 LB SUGAR | 8.34 0 | 4200 | 0 | 0 | 0 | 0 | 10000 | 5000 | TANK |

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

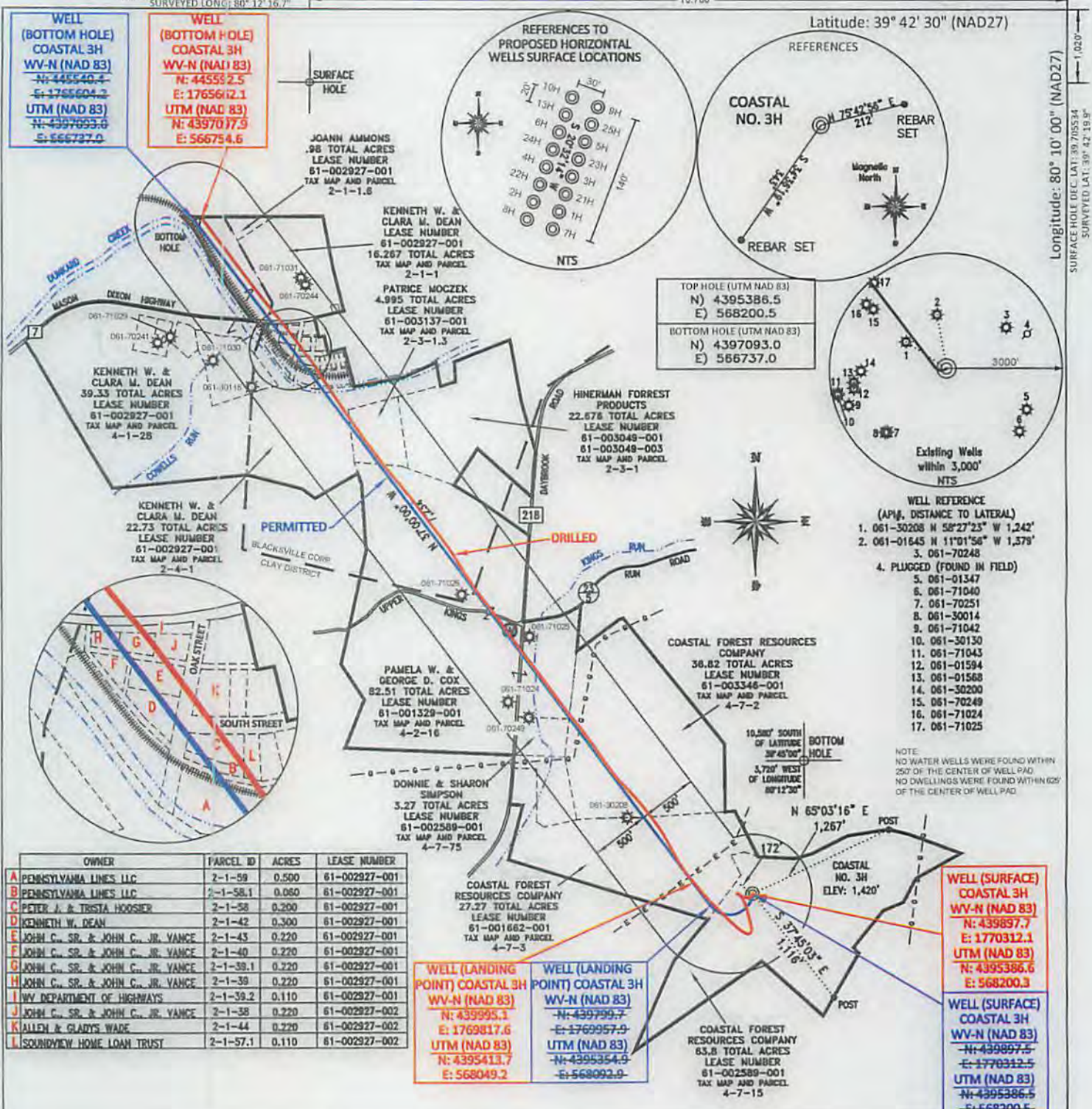
| PRESSURE/RATE DETAIL | | | | | EXPLANATION | | |
|----------------------|----------------|---------|----------|-------------------|-------------|--|-------------------------------------|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES | 4500 PSI |
| | | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| | | | | | | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 10:00 | | | | | | ARRIVE ON LOCATION(LOC TIME 1000) | |
| 11:00 | | | | | | SPOT EQUIPMENT | |
| 11:10 | | | | | | PRE RIG IN SAFETY MEETING | |
| 12:55 | | | | | | RIG IN | |
| 13:30 | | | | | | SAFETY MEETING WITH CUSTOMER | |
| 13:40 | 200 | | 3 | 5 | H2O | LINE FILL | |
| 13:45 | 4500 | | 1 | 1 | H2O | PRESSURE TEST | |
| 13:47 | 600 | | 5.5 | 47 | ULTRABOND | ULTRABOND+1 GAL/BBL UB CONC.+2.5 GAL/BBL-5+265 LBS/BBL BARITE | |
| 14:00 | 675 | | 5.6 | 50 | MULTIBOND | MULTIBOND+1.64 LB/ BBL ASA-301 | |
| 14:10 | 684 | | 5.5 | 613 | SLURRY | PREM NE-1 + .35% R-3 + .2% MPA-170 | |
| 16:00 | 600 | | 5 | 5 | H2O | WASH LINES | |
| 16:05 | 550 | | 3 | 3 | SUGAR H2 | SUGAR WATER | |
| 16:08 | | | | | | DROP PLUG | |
| 16:10 | 2178 | | 7.5 | | SUGAR H2 | DISPLACEMENT +10 BBL SUGAR WATER | |
| 17:08 | | | | 355 | | PLUG DOWN | |
| 17:13 | | | | | | HOLD PRESSURE 5 MIN RELEASED FLOATS HELD (5 BBL BACK) | |
| 17:20 | | | | | | RIG DOWN SAFETY MEETING | |

61-01684

CEMENT JOB REPORT



| PRESSURE/RATE DETAIL | | | | | | EXPLANATION | |
|--|---------------------------------|--|--|----------------------------------|--------------------------------|--|--------------------------------------|
| TIME HR:MIN. | PRESSURE - PSI | | RATE BPM | Bbl. FLUID PUMPED | FLUID TYPE | SAFETY MEETING: BJ CREW <input checked="" type="checkbox"/> CO. REP. <input checked="" type="checkbox"/> | |
| | PIPE | ANNULUS | | | | TEST LINES 4500 PSI | |
| | | | | | | CIRCULATING WELL - RIG <input type="checkbox"/> BJ <input checked="" type="checkbox"/> | |
| BUMPED PLUG | PSI TO BUMP PLUG | TEST FLOAT EQUIP. | BBL.CMT RETURNS/ REVERSED | TOTAL BBL. PUMPED | PSI LEFT ON CSG | SPOT TOP OUT CEMENT | <u>SERVICE SUPERVISOR SIGNATURE:</u> |
| Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | 4400 | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | 0 | 1075 | 0 | Y <input type="checkbox"/> N <input checked="" type="checkbox"/> | |



| OWNER | PARCEL ID | ACRES | LEASE NUMBER |
|-----------------------------------|-----------|-------|---------------|
| A PENNSYLVANIA LINES LLC | 2-1-59 | 0.500 | 61-002927-001 |
| B PENNSYLVANIA LINES LLC | 2-1-58.1 | 0.080 | 61-002927-001 |
| C PETER J. & TRISTA HOOSIER | 2-1-58 | 0.200 | 61-002927-001 |
| D KENNETH W. DEAN | 2-1-42 | 0.300 | 61-002927-001 |
| E JOHN C. SR. & JOHN C. JR. YANCE | 2-1-43 | 0.220 | 61-002927-001 |
| F JOHN C. SR. & JOHN C. JR. YANCE | 2-1-40 | 0.220 | 61-002927-001 |
| G JOHN C. SR. & JOHN C. JR. YANCE | 2-1-39.1 | 0.220 | 61-002927-001 |
| H JOHN C. SR. & JOHN C. JR. YANCE | 2-1-39 | 0.220 | 61-002927-001 |
| I WV DEPARTMENT OF HIGHWAYS | 2-1-39.2 | 0.110 | 61-002927-001 |
| J JOHN C. SR. & JOHN C. JR. YANCE | 2-1-38 | 0.220 | 61-002927-002 |
| K ALLEN & GLADYS WADE | 2-1-44 | 0.220 | 61-002927-002 |
| L SOUNDVIEW HOME LOAN TRUST | 2-1-37.1 | 0.110 | 61-002927-002 |

WELL (LANDING POINT) COASTAL 3H WV-N (NAD 83)
N: 439995.1
E: 1769817.6
UTM (NAD 83)
N: 4395413.7
E: 568049.2

WELL (LANDING POINT) COASTAL 3H WV-N (NAD 83)
N: 439799.7
E: 1769957.9
UTM (NAD 83)
N: 4395354.9
E: 568092.9

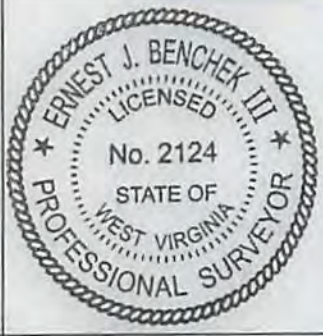
WELL (SURFACE) COASTAL 3H WV-N (NAD 83)
N: 439897.7
E: 1770312.1
UTM (NAD 83)
N: 4395386.6
E: 568200.3

WELL (SURFACE) COASTAL 3H WV-N (NAD 83)
N: 439897.5
E: 1770312.5
UTM (NAD 83)
N: 4395386.5
E: 568200.5

FILE #: NNE12
DRAWING #: 2319
SCALE: PLAT: 1" = 1200'
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

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

WATERSHED: DUNKARD CREEK ELEVATION: 1,420'
COUNTY/DISTRICT: MONONGALIA / CLAY QUADRANGLE: BLACKSVILLE
SURFACE OWNER: COASTAL FOREST RESOURCES COMPANY ACREAGE: 63.8 +/- 10/30/2015
OIL & GAS ROYALTY OWNER: WACO OIL AND GAS, ET AL ACREAGE: 295.152 +/-
LEASE NUMBERS: _____

DATE: OCTOBER 5, 2015
OPERATOR'S WELL #: COASTAL NO. 3H AS-DRILLED
API WELL #: 47 61 01684 H6A
STATE COUNTY PERMIT

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: 8,203.32' TMD: 15,665'
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