Cementing & Casing Plan: Figure 1 below shows the current configuration of the wellbore, where 7-inch casing is set at 501 feet and cemented to surface. Cement returns were achieved during the cementing of the 7-inch casing string. Within the 7-inch casing, 2.375-inch tubing was run to 1,460 feet with a packer set to isolate the annular space between the tubing and casing.

The Completion Report along with the frac report (Tables 1 and 2) are included in this section along with the calculation sheet to determine the calculated height of the cement column, which in this case was 34 feet greater than the depth of the 7-inch casing; confirming the operator's report that cement returns were noted at the surface.

Once the permit application is approved to convert the Clara #20 from a gas production to a Class II-D UIC well the operator will pull the 2.375-inch tubing and run 4.5-inch intermediate casing to a depth of 1,460 feet and cement this casing back to the surface. Afterward, within the cemented 4.5-inch casing, 2.375-inch tubing will be set at 1,460 feet on a packer to isolate the annular space between the tubing and casing (Figure 2). This provides two strings of cemented casing protecting the lowest known USDW in this well, which is at 340 feet.

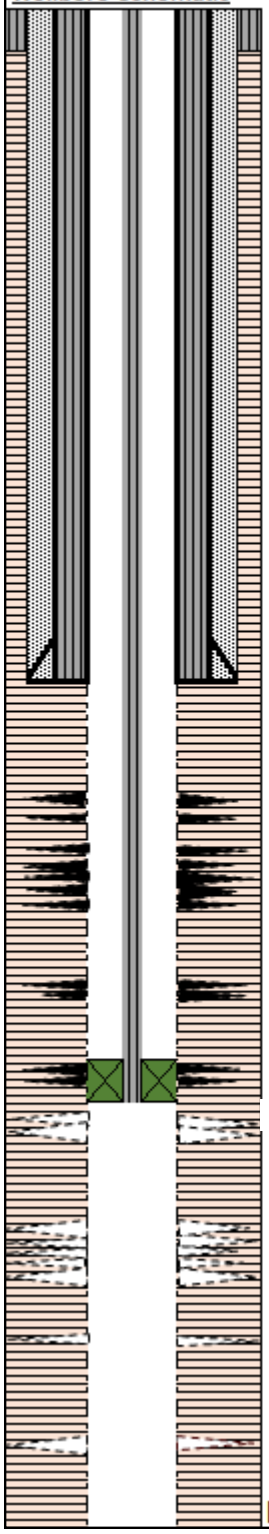
Injection will then take place in three zones, which were hydraulically fractured by the original operator in 2008. New stimulation or re-stimulation of the existing well is not planned. A plug back from original Total Depth (TD) of 2,310 feet is also not planned.

Latest MIT: A Mechanical Integrity Test (MIT) will be performed by the operator after the DEP permit application is approved and prior to any injection upon approval of the MIT by DEP personnel.

EPA Pressure Test: The EPA Pressure Test will be performed by the operator after the DEP permit application is approved and prior to any injection, upon approval of the Pressure Test by EPA and DEP personnel.

Wellbore Current Schematic *(measured depths)*
(No Vertical Scale)

Wellbore Schematic



Cement returned on surf. csg

9-5/8" conductor set @ 23'

denotes cement
denotes formation
denotes tubulars
denotes packer
denotes open hole
notches behind tbg

USDW @ 340'

7" Csg @ 501'

Notch & Frac @ 952'

Notch & Frac @ 1033' & 1037'
Notch @ 1043', 1047' & 1051'
Notch @ Frac @ 1055'

Notch @ Frac @ 1249' & 1253'

Notch @ Frac @ 1447' & 1451'
2.375" Tbg @ 1460'

Notch @ Frac @ 1490' & 1496' ***(CPR5-0 Proposed Injection Zone)***

Notch @ Frac @ 1599', 1603', 1607', & 1611' *(SHF3-1 Proposed Injection Zone)*
Notch @ 1615'

Notch @ Frac @ 1827' *(KANE3-0 Proposed Injection Zone)*

Notch @ 2107'

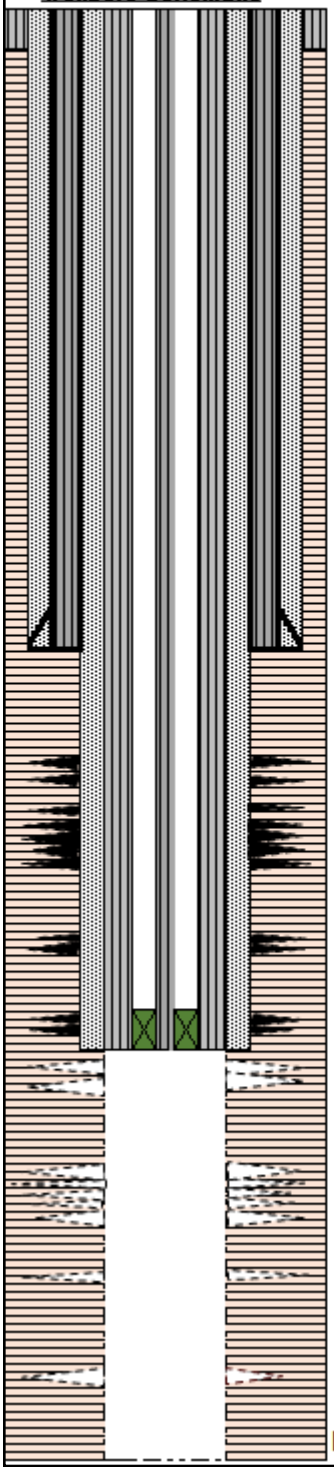
Driller TD = 2,310'; No plug back planned

	Wellbore Data
API #	**37-105-21374-00-00**
Orig. Operator	**North Coast Energy, Inc.**
Current Oper.	**Roulette Oil & Gas Co, LLC**
Well Name & #	**Clara Field #20**
Ground Elev	**2305'**
Datum Elev	**2305'**
Measured From	**Ground Level**
Conductor size - lb/ft	**9 5/8" - 26#**
Csg Size - lb/ft	**7" - 17#**
Csg Size	**4.5"**
Tbg Size	**2.38"**
Fluid in Hole	**Air & Formation Fluid**
Fluid Level	**2261'**
Spud Date	**5/27/2008**
Logging Date	**6/28/2008**
Completion Date	**8/21/2008**

Figure 1

Proposed Wellbore Schematic *(measured depths)*
(No Vertical Scale)

Wellbore Schematic



Cement returned on surf. csg

9-5/8" conductor set @ 23'

denotes cement
denotes formation
denotes tubulars
denotes packer
denotes open hole
notches behind pipe

USDW @ 340'

7" Csg @ 501'
Confining Zone from 501' to 1445'

Notch & Frac @ 952'

Notch & Frac @ 1033' & 1037'
Notch @ 1043', 1047' & 1051'
Notch @ Frac @ 1055'

Notch @ Frac @ 1249' & 1253'

Notch @ Frac @ 1447' & 1451'
2.375" Tbg @ 1460' 4.5" Csg @ 1460' CMT back to surface

Notch @ Frac @ 1490' & 1496' ***(CPR5-0 Proposed Injection Zone)***

Notch @ Frac @ 1599', 1603', 1607', & 1611' *(SHF3-1 Proposed Injection Zone)*
Notch @ 1615'

Notch @ Frac @ 1827' *(KANE3-0 Proposed Injection Zone)*

Notch @ 2107'
Confining Zone from 1827' to TD

Driller TD = 2,310'; No plug back planned

Wellbore Data	
API #	**37-105-21374-00-00**
Orig. Operator	**North Coast Energy, Inc.**
Current Oper.	**Roulette Oil & Gas Co, LLC**
Well Name & #	**Clara Field #20**
Ground Elev	**2305'**
Datum Elev	**2305'**
Measured From	**Ground Level**
Conductor size - lb/ft	**9 5/8" - 26#**
Csg Size - lb/ft	**7" - 17#**
Csg Size	**4.5"**
Tbg Size	**2.38"**
Fluid in Hole	**Air & Formation Fluid**
Fluid Level	**2261'**
Spud Date	**5/27/2008**
Logging Date	**6/28/2008**
Completion Date	**8/21/2008**

Figure 2

Clara #20 (37-105-21374-00-00) Well Record

Clara Field #20	37-105-21374 (Proposed UIC Class II-D Well)
Original Operator:	North Coast Energy Inc
Current Operator:	Roulette Oil & Gas Co, LLC
Ground Level:	2,305’
Spud Date:	5/27/2008
Deepest FW:	340’
Shallowest FW:	340’
Total Depth:	2,310’ (Driller TD)
Completion Date:	8/12/2008 (date of stimulation)
Completion Method:	Hydraulic Fracture (21 stages: five stages would not break)
Well Status:	Gas
Casing /Depth:	9 5/8” at 23’ (Sanded in) 7” (17#) at 501’ (Cemented in with 110 SX 50/50 POZ) 1 1/2” at 2151.9’
Top of Cement: (TOC)	**37.7 bbls pumped including 35% excess** **(Calculation: Cmt Vol (bbl) / [Casing Capacity (bbl/ft) + Annular Capacity (bbl/ft)]** **Casing Capacity = 0.0415 bbl/ft (Universal Well Services Field Book)** **Annular Capacity = 0.0289 bbl/t (Universal Well Services Field Book)** **TOC = 37.7 / (0.0415 + 0.0289) = 535’ of cement length with cement returns reported by operator**
Logs Curves:	Gamma Ray, Caliper, Temperature, Medium & Deep Induction, Neutron Porosity, Bulk Density, Density Porosity, Density Correction
Log Depth Range:	34’-2,319’ (Logger’s TD)

Current Production Casing Depth is 1,460 feet on a packer. This casing string will be cemented back to surface as part of the procedure to convert this well to a Class II-D UIC well.

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

WELL RECORD AND COMPLETION REPORT

DEP USE ONLY	
Site Id	Primary Facility Id
Client Id	Sub-facility Id

Well Operator: NORTH COAST ENERGY, INC.	DEP ID#: 48277	Well API # (Permit / Reg): 105-21374	Project Number:	Acres: 3300+-
Address: ONE GOJO PLAZA, SUITE 325		Well Farm Name: CLARA FIELD	Well #: 20	Serial #:
City: AKRON	State: OH / Zip Code: 44311	County: POTTER	Municipality: CLARA	
Phone: (330) 572 - 8500	Fax: (330) 252 - 0199	USGS 7.5 min. quadrangle map: SHINGLEHOUSE		

Check all that apply: ☒ Original Well Record ☒ Original Completion Report ☐ Amended Well Record ☐ Amended Completion Report

WELL RECORD

Also complete Log of Formations on back (page 2)

Well Type: ☒ Gas ☐ Oil ☐ Combination Oil & Gas ☐ Injection ☐ Storage ☐ Disposal

Drilling Method: ☒ Rotary – Air ☐ Rotary – Mud ☐ Cable Tool

Date Drilling Started	Date Drilling Completed	Surface Elevation	Total Depth – Driller	Total Depth - Logger
5/27/2008	5/30/2008	2305 ft.	2310 ft.	2319 ft.

Casing and Tubing

Cement returned on surface casing? ☐ Yes ☒ No
Cement returned on coal protective casing? ☐ Yes ☐ No ☒ N/A

Hole Size	Pipe Size	Wt.	Thread / Weld	Amount in Well (ft)	Material Behind Pipe Type and Amount	Packer / Hardware / Centralizers Type	Size	Depth	Date Run
12 1/4	9 5/8	26	T	23	SANDED IN				5/27/2008
8 7/8	7	17	T	501	110 SX 50/50 POZ	SHOE	7	501	5/28/2008
						CENT	7	470,376	5/28/2008
						CENT	7	282	5/28/2008
6 1/4	1 1/2	2.75	T	2151.9	HUNG				8/22/2008

COMPLETION REPORT

Perforation Record

Date	Interval Perforated From	To

Stimulation Record

Date	Interval Treated	Fluid Type	Fluid Amount	Propping Agent Type	Propping Agent Amount	Average Injection
	SEE ATTACHED STIMULATION RECORD					

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Natural Open Flow	SHOW GAS	Natural Rock Pressure	NT	Hours	Days
After Treatment Open Flow	800 MAF	After Treatment Rock Pressure	500	72 Hours	Days

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

Name: PLANTS & GOODWIN INC	Name: SUPERIOR WELL SERVICES	Name: TITAN WIRELINE
Address: 1034 ROUTE 44	Address: 346 HIGH ST	Address: ROUTE 219 S
City - State - Zip: SHINGLEHOUSE, PA 16748	City - State - Zip: BRADFORD, PA 16701	City - State - Zip: ELDERTON, PA 15736
Phone: (814)697-6330	Phone: (814)368-3137	Phone: (724)354-2629

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LOG OF FORMATIONS

Well API#: **105-21374**

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
SURFACE FILL	0	8				DRILLER LOG
SHALE	8	35				"
SANDSTONE	35	85				"
SHALE	85	120				"
RED ROCK	120	140				"
SANDSTONE	140	180				"
RED ROCK	180	210				"
SHALE	210	225				"
RED ROCK	225	320				"
SANDSTONE	320	360			1/2" F 340'	"
RED ROCK	360	420				"
SHALE	420	460				"
RED ROCK	460	485				"
SANDSTONE	485	520				"
SHALE & RED ROCK	520	1170				"
SAND	1170	1185	1180'			"
SHALE	1185	1370				"
SAND	1370	1380	1375'			"
SHALE	1380	1440				"
LT BROWN SANDSTONE	1440	1455	1450'			"
SHALE	1455	1540				"
SAND	1540	1560				"
SHALE	1560	1625				"
SAND	1625	1640	1630'			"
SHALE	1640	1735				"
BROWN SANDSTONE	1735	1743	1740'			"
SHALE	1743	1790				"
BROWN SANDSTONE	1790	1830	1800'			"
SHALE	1830	2035				"
SAND	2035	2045				"
SHALE	2045	2060				"
SAND	2060	2080				"
SHALE	2080	2105				"
BROWN SANDSTONE	2105	2130	2110'			"
SHALE	2130	2180				"
SAND	2180	2190				"
SHALE	2190	2310				"
DTD		2310				"

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Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:

Title: SR GEOLOGIST

Date: 10/15/2008

DEP USE ONLY

Reviewed by: Date:

Comments:

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CLARA FIELD 20
105-21374

Table 1

COMPLETION REPORT									
PERFORATION RECORD			STIMULATION RECORD						
	PERFORATED			INTERVAL	FLUID		PROPPING AGENT		AVERAGE
DATE	FROM	TO	DATE	TREATED	TYPE	AMOUNT	TYPE	AMOUNT	INJECTION
8/18/2008	952	952	8/21/2008	952	WATER	3846 G	SAND	50 SX	18
8/18/2008	1002	1002	8/21/2008	1002	WATER	5554 G	SAND	80 SX	19.2
8/18/2008	1033	1033	8/21/2008	1033	WATER	6060 G	SAND	100 SX	18.2
8/18/2008	1037	1037	8/21/2008	1037	WATER	7722 G	SAND	100 SX	18
8/18/2008	1043	1043	8/21/2008	1043	WATER	243 G	SAND		1.4
8/18/2008	1047	1047	8/21/2008	1047	WATER	115 G	SAND		4.5
8/18/2008	1051	1051	8/21/2008	1051	NOT TREATED				
8/18/2008	1055	1055	8/21/2008	1055	WATER	6385 G	SAND	90 SX	18.5
8/18/2008	1249	1249	8/21/2008	1249	WATER	6508 G	SAND	80 SX	18.7
8/18/2008	1253	1253	8/21/2008	1253	WATER	6026 G	SAND	80 SX	18.4
8/18/2008	1447	1447	8/21/2008	1447	WATER	6509 G	SAND	80 SX	19.4
8/18/2008	1451	1451	8/21/2008	1451	WATER	6066 G	SAND	80 SX	18.7
8/18/2008	1490	1490	8/21/2008	1490	WATER	6035 G	SAND	80 SX	18.2
8/18/2008	1496	1496	8/21/2008	1496	WATER	4753 G	SAND	80 SX	18.8
8/18/2008	1599	1599	8/21/2008	1599	WATER	6025 G	SAND	80 SX	18.3

Table 2

Stage #	Formation	Notch Depth (ft)	ISIP (psi)
1	WRRN1-0	952	779
2	WRRN4-0	1002	654
3	WRRN6-0	1033	688
4	WRRN6-0	1037	791
5	WRRN6-0	1043	Did Not Break
6	WRRN6-0	1047	Did Not Break
7	WRRN6-0	1051	Did Not Treat
8	WRRN6-0	1055	801
9	SPCH5-0	1249	879
10	SPCH5-0	1253	942
11	CPR2-0	1447	923
12	CPR2-0	1451	942
13	CPR5-0	1490	1045
14	CPR5-0	1496	1069
15	SHF3-1	1599	1089
16	SHF3-1	1603	1167
17	SHF3-1	1607	1080
18	SHF3-1	1611	1187
19	SHF3-1	1615	Did Not Break
20	KANE3-0	1827	1221
21	ESTR2-0	2107	Did Not Treat