



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

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

WELL RECORD AND COMPLETION REPORT

Well Operator NORTH COAST ENERGY, INC.		DEP ID# 48277	Well API # (Permit / Reg) 105-21359	Project Number	Acres 3300+-
Address ONE GOJO PLAZA, SUITE 325			Well Farm Name CLARA FIELD	Well # 19	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	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Combination Oil & Gas	<input type="checkbox"/> Injection	<input type="checkbox"/> Storage	<input type="checkbox"/> Disposal
Drilling Method	<input checked="" type="checkbox"/> Rotary - Air	<input type="checkbox"/> Rotary - Mud	<input type="checkbox"/> Cable Tool			
Date Drilling Started 6/9/2008	Date Drilling Completed 6/11/2008	Surface Elevation 2231 ft.	Total Depth - Driller 2200 ft.	Total Depth - Logger 2208 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		6/9/2008
8 7/8	7	17	T	501	110 SX 50/50 POZ	SHOE 7 501	6/9/2008
						CENT 7 470,376	6/9/2008
						CENT 7 283	6/9/2008
6 1/4	3 1/2	9	T	900	ON PACKER	PACKER 3 1/2 900	8/28/2008

COMPLETION REPORT

Perforation Record			Stimulation Record				
Date	Interval Perforated From To		Date	Interval Treated	Fluid Type Amount	Propping Agent Type Amount	Average Injection
				SEE ATTACHED STIMULATION RECORD			
Natural Open Flow	SHOW GAS		Natural Rock Pressure	NT		Hours	Days
After Treatment Open Flow	1100 MAF		After Treatment Rock Pressure	485		24 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 ELBERTON, PA 15736
Phone (814)697-6330	Phone (814)368-3137	Phone (724)354-2629

CLARA FIELD 19
105-21359

COMPLETION REPORT									
PERFORATION RECORD			STIMULATION RECORD						
DATE	PERFORATED		DATE	INTERVAL TREATED	FLUID		PROPPING AGENT		AVERAGE INJECTION
	FROM	TO			TYPE	AMOUNT	TYPE	AMOUNT	
8/25/2008	925	925	8/28/2008	925	WATER	4557 G	SAND	50 SX	19.1
8/25/2008	930.5	630.5	8/28/2008	630.5	WATER	4057 G	SAND	60 SX	20.1
8/25/2008	934.5	934.5	8/28/2008	934.5	WATER	5060 G	SAND	60 SX	19.2
8/25/2008	957	957	8/28/2008	957	WATER	5223 G	SAND	60 SX	20.3
8/25/2008	961	961	8/28/2008	961	WATER	4573 G	SAND	60 SX	19.3
8/25/2008	965	965	8/28/2008	965	WATER	4289 G	SAND	50 SX	20.3
8/25/2008	969	969	8/28/2008	969	WATER	4558 G	SAND	50 SX	18.8
8/25/2008	973	973	8/28/2008	973	WATER	5078 G	SAND	50 SX	19.5
8/25/2008	977	977	8/28/2008	977	WATER	4898 G	SAND	70 SX	20.3
8/25/2008	1174	1174	8/28/2008	1174	WATER	5026 G	SAND	70 SX	20.2
8/25/2008	1178	1178	8/28/2008	1178	WATER	5010 G	SAND	70 SX	20.1
8/25/2008	1301	1301	8/28/2008	1301	WATER	5369 G	SAND	70 SX	20.2
8/25/2008	1322	1322	8/28/2008	1322	WATER	8497 G	SAND	80 SX	19.2
8/25/2008	1326	1326	8/28/2008	1326	WATER	7455 G	SAND	91 SX	19.6
8/25/2008	1330.5	1330.5	8/28/2008	1330.5	NOT TREATED				

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ENVIRONMENTAL PROTECTION
 AUSTIN REGIONAL OFFICE

LOG OF FORMATIONS

Well API#: **105-21359**

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
SANDSTONE	8	55				"
RED ROCK	55	85				"
SHALE	85	110				"
SANDSTONE	110	125				"
RED ROCK	125	160				"
SANDSTONE	160	185			DAMP 175'	"
SHALE	185	220				"
RED ROCK	220	260				"
SANDSTONE	260	285			1/4" F 275'	"
RED ROCK	285	320				"
SHALE	320	360				"
SANDSTONE	360	385				"
RED ROCK	385	460				"
SHALE	460	530				"
RED ROCK	530	560				"
SHALE & SANDSTONE	560	1295				"
SAND	1295	1300	1295'			"
SHALE	1300	1420				"
BROWN SANDSTONE	1420	1440	1430'			"
SHALE	1440	1535				"
BROWN SANDSTONE	1535	1595				"
SHALE	1595	1645				"
SAND	1645	1660				"
SHALE	1660	1745				"
SAND	1745	1760				"
SHALE	1760	1810				"
SAND	1810	1825				"
SHALE	1825	1880				"
SAND	1880	1910	1900'			"
SHALE	1910	1950				"
SAND	1950	1965				"
SHALE	1965	2095				"
SAND	2095	2110				"
SHALE	2110	2200				"
DTD		2200				"

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ENVIRONMENTAL ACTION
NORTHWEST REGION OFFICE

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

<p>Well Operator's Signature:</p> <p><i>[Signature]</i></p> <p>Title: Sr. Geologist</p> <p>Date: 10/13/2008</p>	<p style="text-align: center;">DEP USE ONLY</p> <p>Reviewed by: <i>[Signature]</i></p> <p>Date: 9-14-09</p> <p>Comments:</p>
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