

RP NO. 1  
P/K NAIL IN  
4" LOCUST  
ELEV. 1135.78

REFERENCES:  
SCALE: 1"=100'

RP. NO. 2  
P/K NAIL IN  
8" RED OAK  
ELEV. 1129.14

CONSOLIDATION  
COAL COMPANY  
TAX MAP 22  
PARCEL 4  
156.90± ACRES

CONSOLIDATION  
COAL COMPANY  
TAX MAP 22  
PARCEL 3  
139.77± ACRES

CONSOLIDATION  
COAL COMPANY  
TAX MAP 22  
PARCEL 5  
266± ACRES

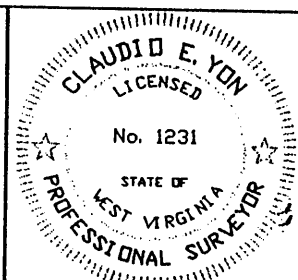
- NOTES: 1. NO KNOWN DOMESTIC WATER SUPPLIES EXIST WITHIN 2000 FT. REFER TO FORM WW2-B1 FOR ADDITIONAL INFORMATION.
2. CONSOLIDATION COAL COMPANY OWNS ALL COAL EXCEPT TWO SMALL TRACTS OF SEWICKLEY, WHICH IS OWNED BY CARSPECKEN ET. AL. AND NEW AUGUSTA, INC.-TRUSTEE. A SALE IS PENDING TO CONSOL ENERGY, INC.

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPH

FILE NO. B01-015-176  
DRAWING NO. B01-015-A7  
SCALE 1" : 500'  
MINIMUM DEGREE OF ACCURACY 1 : 2500  
PROVEN SOURCE OF ELEVATION USC&G MONUMENT  
STATION NAME BURTON

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Claudio E. Yon*  
P.S. \_\_\_\_\_ No. 1231



WVDEP  
OFFICE OF OIL AND GAS DIVISION  
1356 HANSFORD ST.  
CHARLESTON, WV 25301



DATE APRIL 03, 2001  
OPERATOR'S WELL NO. L-1  
API WELL NO. \_\_\_\_\_

WELL TYPE: OIL \_\_\_ GAS \_\_\_ CBM X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 1118.53 WATERSHED SOUTH FORK OF WEST VIRGINIA FORK OF DUNKARD CREEK  
DISTRICT BATTELLE COUNTY MONONGALIA  
QUADRANGLE WADESTOWN ACREAGE 613±

SURFACE OWNER CONSOLIDATION COAL COMPANY LEASE ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNER (CBM) SEE NOTE 2 ABOVE LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_  
PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE  
IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION MONONGAHELA, CONEMAUGH, ALLEGHENY & POTTSVILLE  
ESTIMATED DEPTH 2123'

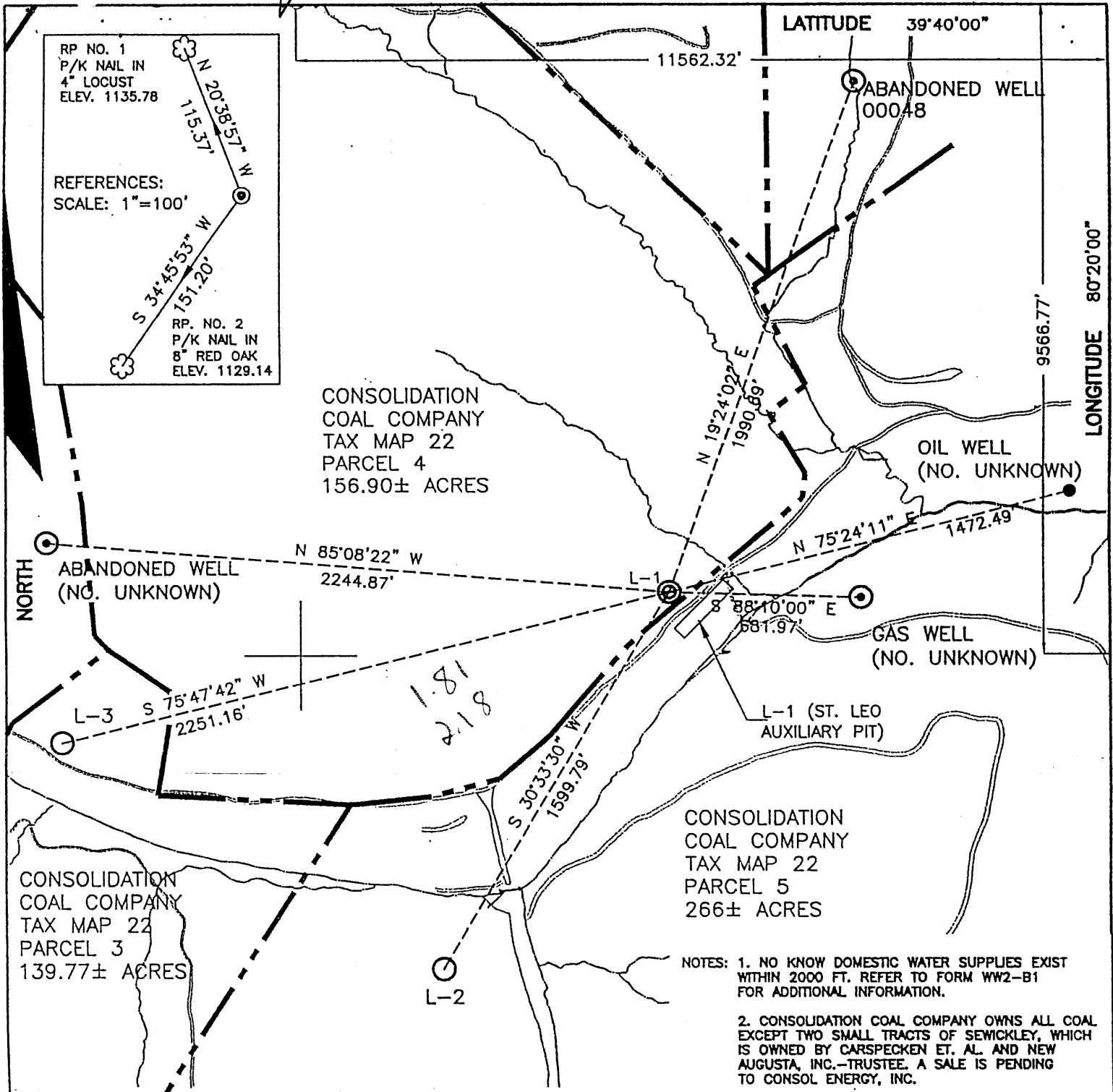
47-061-1404C  
STATE COUNTY PERMIT

WELL OPERATOR CONSOL ENERGY, INC (NORTH)  
ADDRESS 1800 WASHINGTON ROAD  
PITTSBURGH, PA 15421-1421

DESIGNATED AGENT EDWIN L. MERRIFIELD  
ADDRESS 116 1/2 HUNSAKER STREET  
FAIRMONT, WV 26554

JUL 06 2001

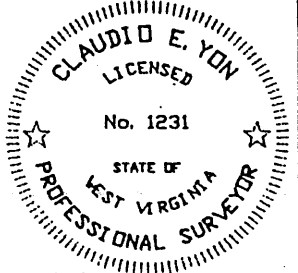
MONO 1404 C



FILE NO. B01-015-176  
DRAWING NO. B01-015-A30  
SCALE 1" : 500'  
MINIMUM DEGREE OF ACCURACY 1 : 2500  
PROVEN SOURCE OF ELEVATION USC&G MONUMENT  
STATION NAME BURTON

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 DIVISION OF ENVIRONMENTAL PROTECTION.

(SIGNED) *Charles S. G...*  
P.S. \_\_\_\_\_ No. 1231



WVDEP  
OFFICE OF OIL AND GAS DIVISION  
1356 HANSFORD ST.  
CHARLESTON, WV 25301



DATE MAY 07, 2001  
OPERATOR'S WELL NO. L-1  
API WELL NO. 47-061-01404J  
STATE COUNTY PERMIT

WELL TYPE: OIL  GAS  CBM  LIQUID INJECTION  WASTE DISPOSAL   
(IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1118.53 WATERSHED SOUTH FORK OF WEST VIRGINIA FORK OF DUNKARD CREEK  
DISTRICT BATTELLE COUNTY MONONGALIA  
QUADRANGLE WADESTOWN ACREAGE 613±

SURFACE OWNER CONSOLIDATION COAL COMPANY LEASE ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNER (CBM) SEE NOTE 2 ABOVE LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE \_\_\_\_\_  
IN WELL (SPECIFY) \_\_\_\_\_  
PLUG AND ABANDON  CLEAN OUT AND REPLUG

TARGET FORMATION MONONGAHELA, CONEMAUGH, ALLEGHENY & POTTSVILLE  
ESTIMATED DEPTH 2123'

WELL OPERATOR CONSOL ENERGY, INC (NORTH) DESIGNATED AGENT EDWIN L. MERRIFIELD  
ADDRESS 1800 WASHINGTON ROAD ADDRESS 116 1/2 HUNSAKER STREET  
PITTSBURGH, PA 15421-1421 FAIRMONT, WV 26554

**MAY 11 2001**

ALLIANCE CONSULTING, INC. (WV)GAS.DWG) FORM IV-8

DATE: 6/5/02  
API#: 47-061-01404

State of West Virginia  
Department of Environmental Protection  
Office of Oil and Gas

*bt*

Well Operator's Report of Well Work

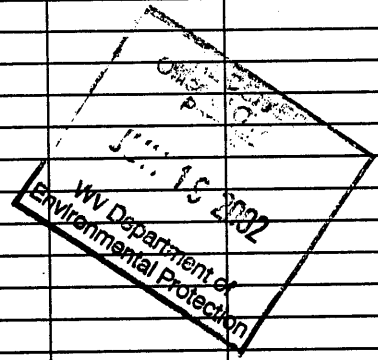
Farm Name: Consolidation Coal Company Operator Well No.: St. Leo CBM No. L-1

LOCATION: Elevation: 1114.37' Quadrangle: Wadestown

District: Battelle County: Monongalia  
Latitude: 9566.77 Feet South of 39 Deg. 40 Min. 00 Sec.  
Longitude: 11562.32 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: CNX Gas Company, LLC (North)

	Casing & Tubing	Used In Drilling	Left In Well	Cement Fill Up Cu. Ft.
Address: 1800 Washington Road	11 3/4"	30'	30'	GRTD
Pittsburgh, PA 15241	8 5/8"	654'	654'	197
Agent: Edwin L. Merrifield	5 1/2"	2080.40'	2080.40'	438
Inspector: Randal Mick				
Date Permit Issued: 7/3/01				
Date Well Work Commenced: 8/4/01				
Date Well Work Completed: 9/27/01				
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 2155'				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 595, 862, 935, 953, 1950, 1994				



OPEN FLOW DATA REFER TO ATTACHMENTS B & C

Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static rock pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE. REFER TO ATTACHMENTS A, B & C

Signed: Geoffrey Lanning  
By: Geoffrey Lanning Drill Foreman CNX GAS  
Date: 6/5/02

JUL 3 2002  
JUL - 7 2002

ATTACHMENT A

St. Leo CBM No. L-1 Drill Log

Depth (In Feet)	Description
0-30	Shale/Gray
30-35	Shale
35-50	Red Rock
50-75	Shale/Gray
75-80	Red Rock
80-95	Shale/Gray
95-105	Red Rock
105-110	Shale/Gray
110-140	Sand/Gray
140-142	Shale/Gray
142-147	Red Rock
147-200	Shale/Gray
200-205	Sand/Gray
205-250	Red Rock
250-270	Shale/Gray
270-302	Sand/Gray
302-312	Red Rock
312-400	Shale
400-415	Red Rock
415-420	Shale
420-435	Sand/Gray
435-443	Shale/Gray
443-475	Shale
475-554	Shale
554-595	Shale
595-598	Coal
598-655	Shale

**ATTACHMENT A**  
**(continued)**

**St. Leo CBM No. L-1 Drill Log**

<b>Depth (In Feet)</b>	<b>Description</b>
655-790	Sand
790-800	Red Rock
800-862	Shale
862-865	Coal
865-935	Shale
935-941	Coal
941-953	Shale
953-970	Coal
970-977	Coal
977-1030	Sand/White
1030-1090	Sand/Gray
1090-1260	Red Rock
1260-1380	Sand/Gray
1380-1410	Red Rock
1410-1450	Sand/Gray
1450-1520	Red Rock
1520-1950	Sand/Gray
1950-1956	Coal
1956-1980	Shale/Sand
1980-1994	Red Rock
1994-1995	Coal
1995-2110	Shale/Gray
2110-2155 (TD)	Red Rock

JUL 7 2002

JUL - 7 2002

## ATTACHMENT B

### St. Leo CBM Well No. L-1 Completion

Permittee:	CNX Gas Company, LLC (North)
API Permit No.:	47-061-01404
Company Well No. :	St Leo CBM WELL No. L-1
Completion Date:	09/27/2001
Total Depth:	2155

	Zone 1	Zone 2	Zone 3	Zone 4
Coals	Kittanning and Upper Freeport	Brush Creek and Bakerstown	Pittsburgh	Redstone and Sewickley
Treatment				
Nitrogen (MSCF)	0	0	0	0
Water (BBLs)	407	243	191	424
Sand (SXS 20/40 and 12/20)	300	170	90	180
Top Perf	1590	1325	956	859
Bottom Perf.	1768	1431	962	926
# Perfs	28	12	24	18
Perf Size	0.45	0.45	0.45	0.45
Break. Press.	2525	3004	1770	2035
Avg. Rate	13.8	11.1	13.6	14.5
ISIP	2381	1525	N/A	N/A
Min	5	5	5	5
Min Press.	1853	1463	N/A	N/A
Avg. Press.	2863	3032	2676	3237
Stimulated	Yes	Yes	Yes	Yes
Stim. Date	09/19/2001	09/19/2001	09/19/2001	09/19/2001

# ATTACHMENT C

## St. Leo CBM Well No. L-1 Perforations

Permittee:	CNX Gas Company, LLC (North)
API Permit No.:	47-061-01404
Company Well No.:	St. Leo CBM Well No. L-1
Total Coal Thickness:	23.3 ft.

	Formation	Top of Coal	Bottom of Coal	Coal Thickness	Actual Perfs
<b>STAGE 1</b>	Kittanning 261	1766.8	1767.5	2.5	1766.5-1768.5
	Kittanning 258	1728.4	1729.0	3.0	1727-1729
	Lower Freeport 256	1644.8	1645.4	0.5	1644-1644.5
	Upper Freeport 251	1590.2	1592.5	2.5	1590-1592.5
<b>Total Coal</b>				<b>8.5</b>	

<b>STAGE 2</b>	Brushcreek N30	1430.3	1431.0	0.7	1430-1431
	Bakerstown	1325.0	1326.9	1.9	1325-1327
<b>Total Coal</b>				<b>2.6</b>	

<b>STAGE 3</b>	Pittsburgh 229	955.5	926.2	6.0	956-962
	Pittsburgh Rider	953.4	954.0	1.3	953-954
<b>Total Coal</b>				<b>7.3</b>	

<b>STAGE 4</b>	Redstone 223	924.5	926.0	1.3	924.5-926
	Sewickley 226	858.6	862.0	3.6	859-862
<b>Total Coal</b>				<b>4.9</b>	

\*\* Perf with 4" guns, 4 Jet Shots per Foot, 120 degree Phasing

\*\* Isolate stages with FasDrill Frac Plugs

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