

(•) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. CNR24214(IC-2)REV-F.DGN
 DRAWING NO. CNR 824214
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SPOT ELEV.(1326')
TOP OF KNOB 2,218' ± NE OF LOCATION

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) Carl E. Miller
 R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DIVISION OF ENVIROMENTAL PROTECTION
 OIL AND GAS DIVISION



DATE JUNE 09, 20 03
 OPERATOR'S WELL NO. 824214 REV.-F
 API WELL NO. _____

47 039 05571
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1252' WATER SHED CLOVER FORK OF CAMPBELLS CREEK
 DISTRICT MALDEN COUNTY KANAWHA
 QUADRANGLE CHARLESTON EAST, WV 7.5'

SURFACE OWNER W.D. LEWIS HEIRS, LP. ACREAGE 11374
 OIL & GAS ROYALTY OWNER W.D. LEWIS HEIRS, LP. LEASE ACREAGE 1598
 LEASE NO. 1181197

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 TUSCARORA ESTIMATED DEPTH 6878'
 WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT R. MARK HACKETT
 ADDRESS P.O. BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

FORM WV-9

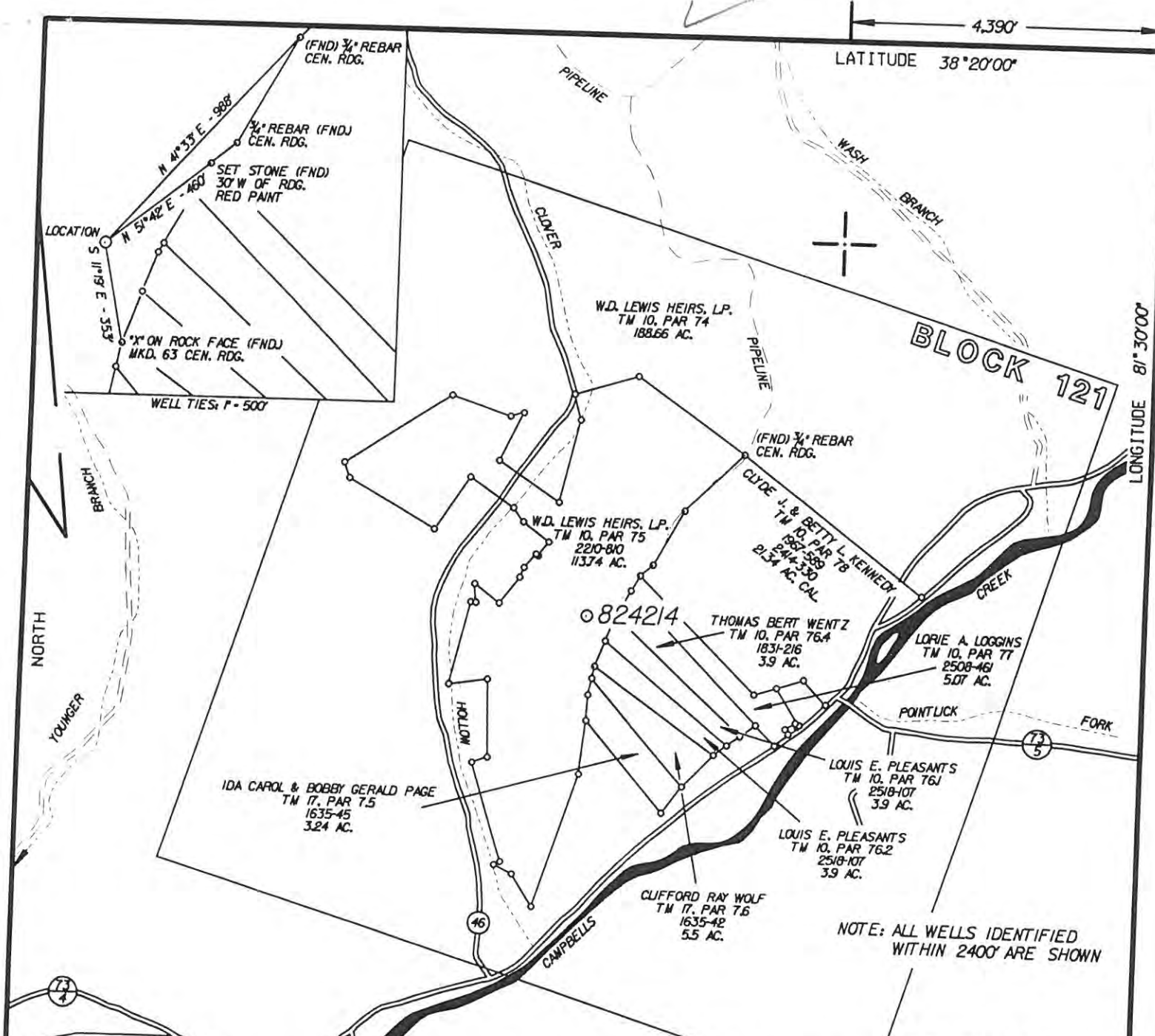
COUNTY NAME

PERMIT

DEEPWELL

6-6 Campbell Creek 214

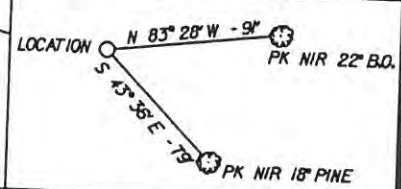
JUN 10 2003



WELL SITE
STATE PLANE WV
SOUTH ZONE NAD 1927
N - 483,036.82
E - 1,852,117.48

NOTE: ALL WELLS IDENTIFIED WITHIN 2400' ARE SHOWN

REFERENCES: P-100



(•) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. CNR24214(1C-2)ALT.B.DGN
DRAWING NO. CNR 824214
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION SPOT ELEV. (1326')
TOP OF KNOB 2120 ± NE OF LOCATION

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) Saul E. Miller
R.P.E. _____ L.L.S. 647

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION



DATE OCTOBER 24, 20 02
OPERATOR'S WELL NO. 824214 REV.
API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION X STORAGE DEEP X SHALLOW
LOCATION: ELEVATION 1252 WATER SHED CLOVER FORK OF CAMPBELLS CREEK
DISTRICT MALDEN COUNTY KANAWHA
QUADRANGLE CHARLESTON EAST, WV 7.5'
SURFACE OWNER W.D. LEWIS HEIRS, LP.
OIL & GAS ROYALTY OWNER W.D. LEWIS HEIRS, LP. ACREAGE 1137.4
LEASE NO. 118197 LEASE ACREAGE 1598

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

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION TUSCARORA ESTIMATED DEPTH 6878'
WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT MARK HACKETT
ADDRESS P.O. BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

COUNTY NAME KAN
PERMIT 5571

MAR 1 2003

DEEP

DATE: February 12, 2004

API: 47-039-05571

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

h B

Farm name: W. D. Lewis Heirs
Location Elevation: 1252'
District: Malden

Operator Well No: 824214
Quadrangle: Charleston East
County: Kanawha

COLUMBIA NATURAL RESOURCES	Casing & Tubing	Used in drilling	Left in Well	Cement fill up Cu.Ft.
Address: P.O. Box 6070	20"	20'	20'	
Charleston, WV 25362	13 3/8"	441'	441'	454
Agent: Mike John	9 5/8"	1939'	1939'	725
Inspector: Carlos Hively	7"	5310'	5310'	148
Date Permit Issued:	4 1/2"		6661'	254
Date Well work commenced: 04/1/03	2 3/8"		6659'	
Date Well Work completed: 09/22/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary X Cable Rig				
Total Depth (feet): 6775				
Fresh Water Depth (ft): 107				
Salt Water Depth (ft.): 1205				
Is coal being mined in area (No)				
Coal Depths (ft): N/A				

OPEN FLOW DATA

Producing formation: Tuscarora

Pay zone depth (ft) from 6703' to 6716' Openhole

Gas: Initial open flow MCF/d

Oil: Initial open flow Bbl/d

Final open flow 420 MCF/d

Final open flow Bbl/d

Time of open flow between initial and final tests 8 Hours

Static rock Pressure 1100 psig (surface pressure) after 72 Hours

2nd producing formation:

Pay zone depth (ft) from to

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

3rd producing formation:

Pay zone depth (ft) from to from

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.

WELL OPERATOR: COLUMBIA NATURAL RESOURCES, INC.

By: [Signature] Date: 2-12-04

86-3-2004

DEEP-WELL

RECEIVED
Office of Oil & Gas
FEB 13 2004
WV Department of
Environmental Protection

KAN 5571

Well 825214

Well Treatment

Acid Clean up

Openhole 6703'-6715', Acid 1250 gallons, 15% HCL, Average pump rate -1.6-1.8 BPM, ATP 3000 psi, Total H2O 26.5

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Office of Oil & Gas

FEB 13 2004

WV Department of
Environmental Protection

Columbia Natural Resources
W. D. Lewis Hrs. 824214
Malden District, Kanawha County, WV
47-039-05571

Formation	Top	Bottom
Siltstone & shale	0	1032
Sandstone	1032	1107
Siltstone & shale	1107	1200
Salt Sand	1200	1388
Shale	1388	1488
Maxon Sand	1488	1623
Shale	1623	1695
Little Lime	1695	1728
Big Lime	1728	1872
Injun Sand	1872	1897
Pocono Shale	1897	2274
Coffee Shale	2274	2300
Berea Siltstone	2300	2304
Devonian Shale	2304	3484
Lower Huron	3484	4208
Devonian Shale	4208	4602
Rhinestreet Shale	4602	5048
Marcellus Shale	5048	5116
Onondaga Lime	5116	5216
Oriskany Sand	5216	5242
Helderberg Lime	5242	5458
Salina Dolomite & Shale	5458	5986
Newburg Sand	5986	6010
McKenzie Limestone	6010	6213
Keefer Sandstone	6213	6254
Rose Hill Shale	6254	6670
Tuscarora Sandstone	6670	6746
Juniata Shale	6746	TD

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Office of Oil & Gas
FEB 13 2004
WV Department of
Environmental Protection

APR 19 2004

KAN 5571