

FILE NO. CNR24239(IC-8)DGN
 DRAWING NO. CNR 824239
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION USGS BM (613') 4142' +/- SW 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) [Signature]
 R.P.E. _____ L.L.S. 647

PLACE SEAL HERE
 DATE AUGUST 31, 2000
 OPERATOR'S WELL NO. 824239
 API WELL NO. 47 039 05402
 STATE 47 COUNTY 039 PERMIT 05402

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



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1104' WATER SHED SPRING BRANCH OF KANAWHA RIVER
 DISTRICT MALDEN COUNTY KANAWHA
 QUADRANGLE CHARLESTON EAST, WV 7.5'
 SURFACE OWNER LAWSON W. HAMILTON, JR. ACREAGE 508
 OIL & GAS ROYALTY OWNER LAWSON W. HAMILTON, JR. LEASE ACREAGE 707
 LEASE NO. 1190659
 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 _____ ESTIMATED DEPTH _____
 WELL OPERATOR COLUMBIA NATURAL RESOURCES, INC. DESIGNATED AGENT W.A. WATSON, JR.
 ADDRESS P.O. BOX 6070, CHARLESTON, WV 25362 ADDRESS SAME

DEEP WELL
 6-6 358

COUNTY NAME KAN
 PERMIT 5402

DEEP
State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

API # 47-039-05402

AB

Well Operator's Report of Well Work

Farm name: LAWSON W. HAMILTON JR. Operator Well No.: 824239

LOCATION: Elevation: 1104' Quadrangle: CHARLESTON EAST, WV 7.5'

District: MALDEN County: KANAWHA
Latitude: 6440' S. OF 38° 17' 30"
Longitude: 2860' W. OF 81° 32' 30"

Company: COLUMBIA NATURAL RESOURCE
P. O. BOX 6070
CHARLESTON, WV 25362-0000

Agent:

Inspector: CARLOS HIVELEY
Permit Issued: 7-06-01
Well work Commenced: 12-7-01
Well work Completed: 2-18-02
Verbal Plugging _____
Permission granted on: _____
Rotary Cable Rig _____
Total Depth (feet) 6486'
Fresh water depths (ft) 182'
Salt water depths (ft) 1393'
Is coal being mined in area (Y/N)? _____
Coal Depths (ft): YES

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	413'	413'	472
9 5/8"	1779'	1779'	726
7"	5082'	5082'	148
4 1/2"		6376'	236
2 3/8"		6383'	

OPEN FLOW DATA

Producing formation TUSCARORA SANDSTONE Pay zone depth (ft) 6378'-643'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 629 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure 1060 psig (surface pressure) after 144 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.

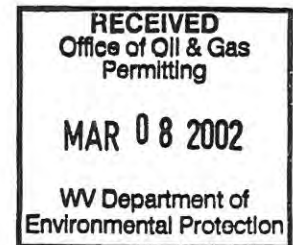


For: COLUMBIA NATURAL RESOURCES, INC.

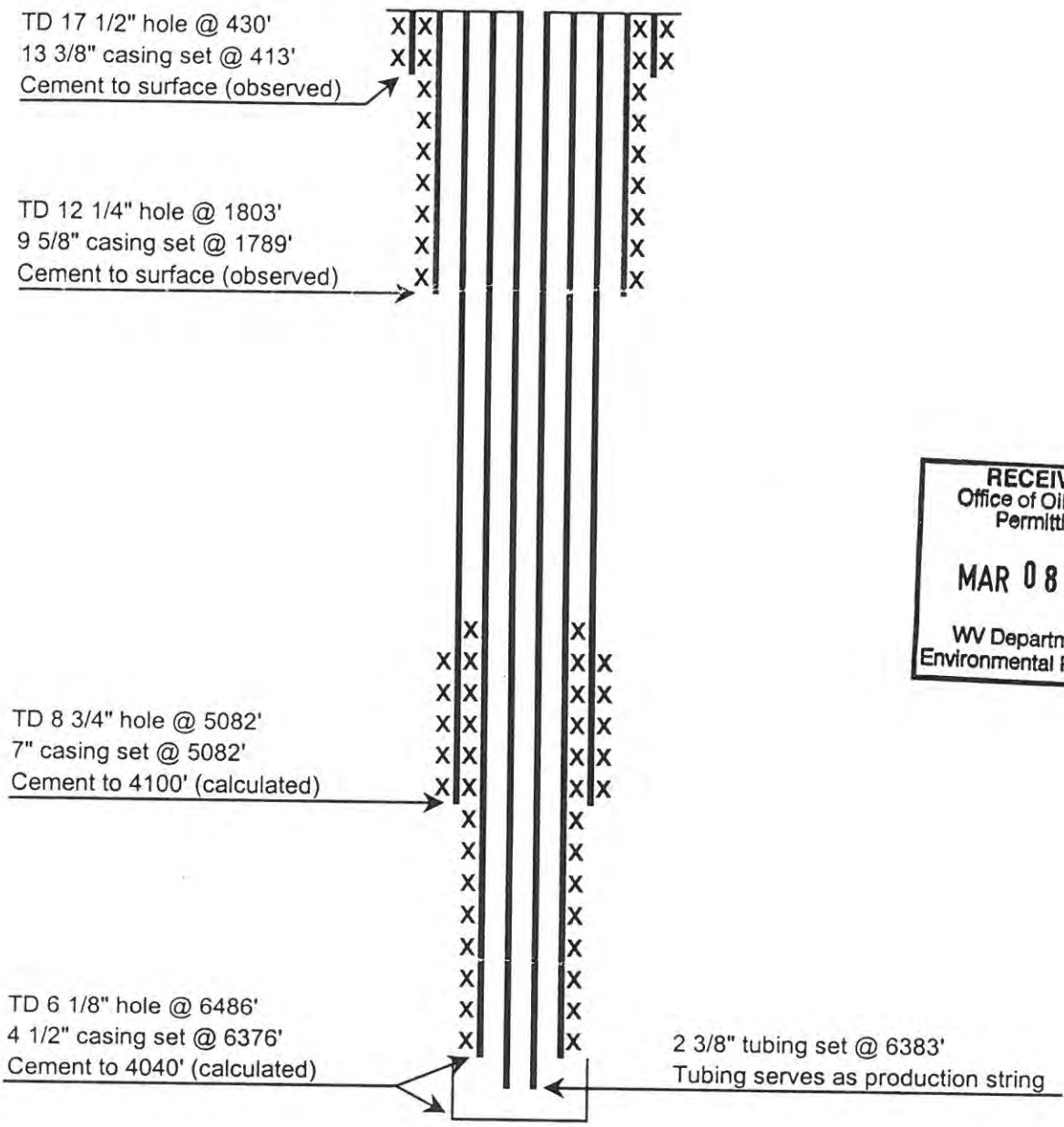
By: R.E. Schuster
Date: 2-22-02

Geological Synopsis

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>
Sand & shale	0	382
Coal	382	388
Sand & shale	388	1393
Salt sand	1393	1443
Little Lime	1443	1550
Big Lime	1550	1678
Injun	1678	1700
Shale	1700	2005
Weir	2005	2080
Berea	2080	2086
Devonian shale	2086	4860
Marcellus shale	4860	4884
Oriondaga limestone	4884	4972
Oriskany sandstone	4972	5222
Salina	5222	5642
Newburg sandstone	5642	5716
Lockport dolomite	5716	5922
Keefer sandstone	5922	5958
Rose Hill shale	5958	6364
Tuscarora sandstone	6364	6432
Juniata shale	6432	6486



Operator: Columbia Natural Resources
 Well#: 824239
 API#: 47-039-05402
 Kanawha County, WV



RECEIVED
 Office of Oil & Gas
 Permitting
 MAR 08 2002
 WV Department of
 Environmental Protection

****NOTE: Well is producing as an open hole completion due to natural flow.

MAR 20 2002

KAN 0402