

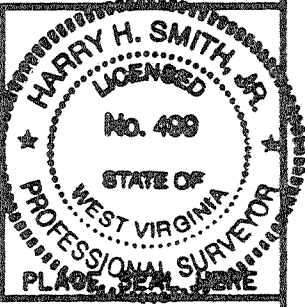
BM Information:
 Std. Disk in N.E. Headwall
 Of Railroad Bridge At Mouth
 Of Blue Creek Stamped
 "V-7 1933" Elev.=614.6'

Notes:
 This Map is For
 Well Location Only &
 Does Not Represent
 A Complete Property Survey.
 Location Determined By
 Differential GPS

(+) DEMOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2")

FILE NO. _____
 DRAWING NO. 12374
 SCALE 1" = 400'
 MINIMUM DEGREE OF
 ACCURACY 1/200'
 PROVEN SOURCE OF
 ELEVATION SEE ABOVE

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 REGU-
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-
 MENT OF ENERGY.
 (SIGNED) Ray H. Smith
 R.P.E. _____ L.L.S. 499



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE December 23, 19 97
 OPERATOR'S WELL NO. 12374
 API WELL NO. 47 039 Directional 05219

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1252' WATER SHED Right Fork Of Upper 3 Mile Branch Of Blue Creek
 DISTRICT Eik COUNTY Kanawha
 QUADRANGLE Blue Creek COORDINATES LAT. 38°25'29" LONG. 81°23'35"

SURFACE OWNER Clyde A. Bare, Jr. ACREAGE 30.5
 OIL & GAS ROYALTY OWNER Marlen E. MacCorkle, Et Al. LEASE ACREAGE 339
 COAL OWNER Marlen E. MacCorkle, Et Al. LEASE NO. 104832

PROPOSED WORK: DRILL & CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW
 FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 90
217

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Oriskany ESTIMATED DEPTH 5602
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD L COTY
 ADDRESS PO Box 1273, Charleston, WV ADDRESS PO BOX 1273, CHARLESTON, WV
25325-1273 25325-1273

COUNTY NAME KAN
 PERMIT 5219

DEEP WELL

RECEIVED
Office of Oil & Gas
Office of Chief
MAY 13 1999
WV Division of
Environmental Protection

07-Apr-98
API # 47- 39-05219

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

Reviewed [Signature]

Well Operator's Report of Well Work

Well name: BARE, CLYDE JR. Operator Well No.: Coco"A" #12374

LOCATION: Elevation: 1,252.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 12100 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude: 5250 Feet West of 81 Deg. 22 Min. 30 Sec.

Company: COLUMBIA GAS TRANSMISSION
P. O. BOX 1273
CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 04/07/98
Well work Commenced: 08/19/98
Well work Completed: 12/02/98
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 6927' MD
Fresh water depths (ft) N/A
Salt water depths (ft) N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
24"		28'	
16"	65#	436'	400' sx neat to surface
10-3/4"	40.5#	2478'	640' sx neat to surface
7-5/8"	29.7#, 26.4#	5651' MD	80' sx neat to surface
2-3/8"	4.7#	5638' MD	

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

* See attached for bottom hole location.

OPEN FLOW DATA 5884' (MD) -
6927' (MD)

Producing formation Oriskany Storage Pay zone depth (ft) _____
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A 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 GAS TRANSMISSION CORP.
By: [Signature] Paul C. Amick, Sr. Storage En
Date: May 10, 1999

MAY 24 1999

KAN 5219

<u>Formation</u>	<u>Top</u>	<u>Base</u>
Salt Sands	1153'	1664'
Big Lime	1920'	2040'
Weir	2075'	2285'
Injun	Not Present	Not Present
Sunbury	Absent	Absent
Berea	Not Present	Not Present
Onondaga	5627' MD 5517' TVD	5864' MD 5625' TVD
Oriskany	5884' MD 5625' TVD	6927' (MD)

Stimulated Oriskany with 3000 gallons of 15% HCl thru coiled tubing.