

4701706169

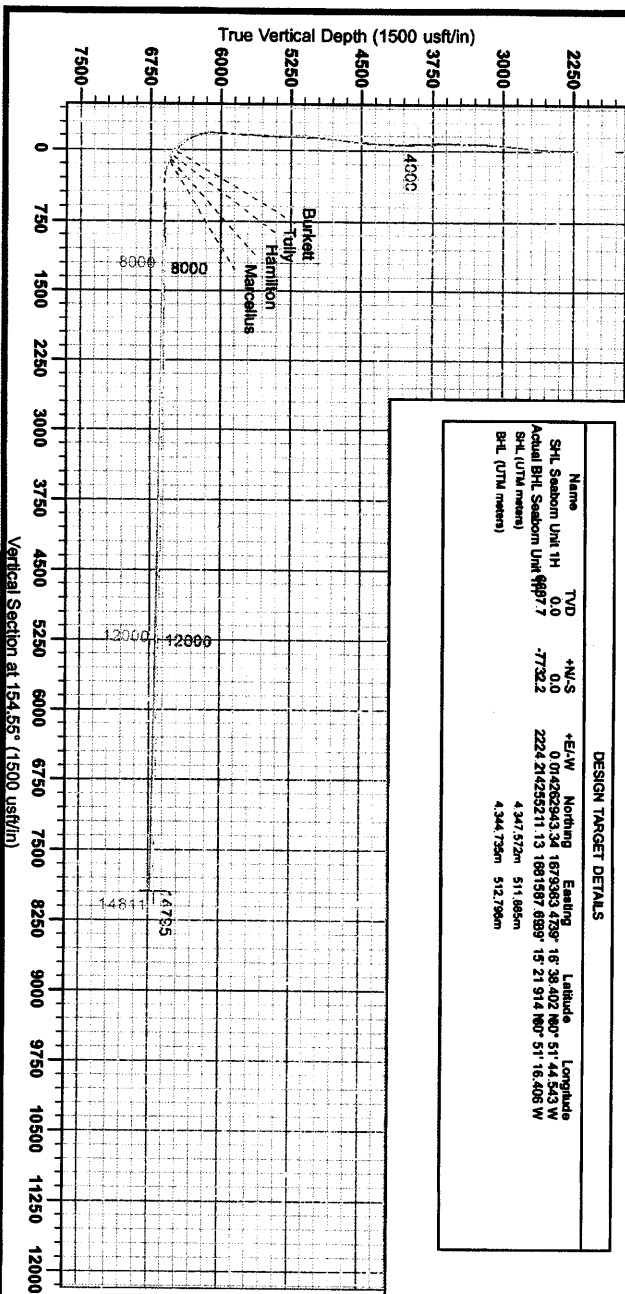
RECEIVED

DEC 16 2013

WV GEOLOGICAL SURVEY
MORGANTOWN, WV



Antero Resources
Seaborn Unit 1H
Doddridge County WV
Northing: 14262943.34
Easting: 1679363.47
As Drilled



WELL DETAILS: Seaborn Unit 1H

Ground Level: 1109.0
 +N/-S: 0.0 +E/-W: 0.0
 Northing: 14262943.34
 Easting: 1679363.47
 Latitude: 38°36'42.280" N
 Longitude: 81°44'54.3" W
 Sd1

PROJECT DETAILS: Doddridge County WV

Geologic System: Unconformity Transverse Macrotectonics (US Survey Feet)
 Ellipsoid: Clarke 1866
 Zone: Zone 17N (4 W, 78 W)
 System Datum: Mean Sea Level

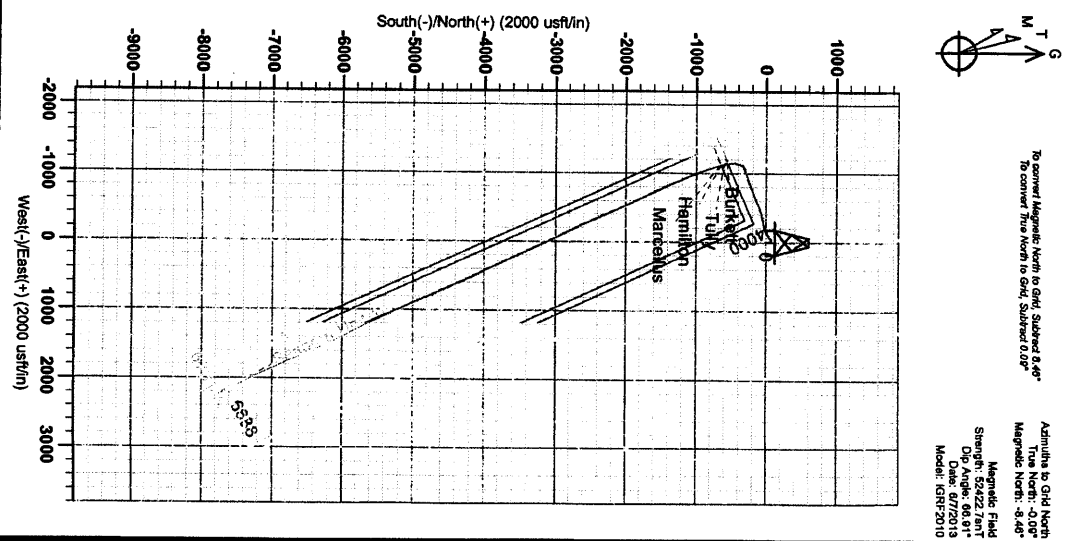
LEGEND

— Seaborn Unit 1H, Original Wellpath, Plan 3 Post Gyro VO
 — As Drilled

Scientific Drilling
 421 South Eagle Lane
 Oklahoma City, OK
 8:37, July 19 2013

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
SHL Seaborn Unit 1H	0.0	0.0	0.0	14262943.34	1679363.47	38°36'42.280" N	81°44'54.3" W
Actual BHL Seaborn Unit 1H	4800	-77.2322	2224.2142355211	13 1881587 8899	15 21 914 180	51 18.406 W	
BHL (UTM meters)			4 344 732m	511 895m			
B-L (UTM meters)			4 344 732m	512 296m			



To convert Magnetic North to Grid, Subtract 8.0°
 To convert True North to Grid, Subtract 0.0°

Admitted to Grid North
 True North: 0.0°
 Magnetic North: 8.0°

Magnetic Field
 Strength: 52422.7anT
 Dip Angle: 86.81°
 Date: 5/7/2013
 Model: GMR 2010