



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

WELL LOCATION PLAT

PAGE 1 Surface Location

DEP	Auth ID #:	G:
USE	Permit #:	C:
ONLY	Project #:	

Denotes location of top of well on topo map.

True Latitude: NORTH

39° 54' 14.51"

True Latitude: WEST

80° 10' 12.23"

LEGEND

- Water Source
- Proposed Gas Well
- Mineral Tract Boundary
- Surface Boundary
- Well Tie Line
- Existing Gas Well
- Plugged Gas Well
- Topo Reference
- Streams/Wetlands/Ponds

NOTE:

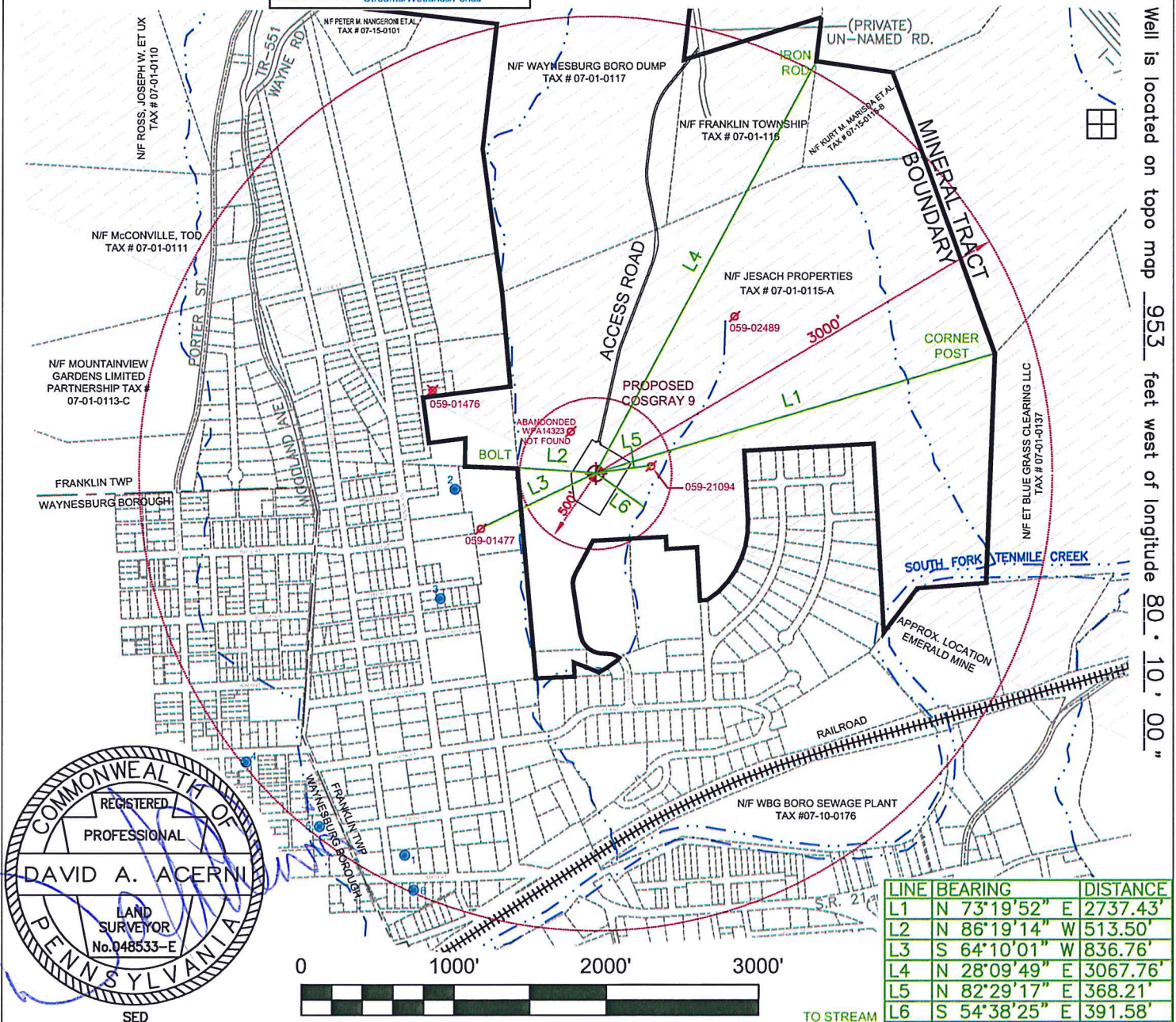
1. THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY. PROPERTY LINES AND OWNERS WERE OBTAINED FROM VARIOUS FIELD EVIDENCE, TAX RECORDS, AND AERIAL MAPPING.

2. THE EMERALD COAL MINE BOUNDARY IS WITHIN 1000 FEET OF PROPOSED WELL.

SPCS GRID NORTH
PA NORTH ZONE

Well is located on topo map 4603 feet south of latitude 39° 55' 00"

Well is located on topo map 953 feet west of longitude 80° 10' 00"



Applicant / Well Operator Name: RICE DRILLING B LLC		DEP ID#: 268470	Well (Farm) Name: COSGRAY		Well #: 9	Serial #:
Address: 2200 RICE DRIVE, CANONSBURG, PA 15317			County: GREENE	Municipality: FRANKLIN TOWNSHIP	Well Type: GAS	
911 address of well site: 269 WAYNE ROAD WAYNESBURG, PA 15370			USGS 7 1/2 Quadrangle Map Name: WAYNESBURG	Map Section: 8	Surface Elevation: 1107.5 ft.	
Surveyor or Engineer: ENVIRONMENTAL LAND SURVEYING DAVID A. ACERNI, P.L.S.	Phone #: 724-463-7303	Dwg #: ELSS 13-33.1H	Date: 07/24/2017	Scale: 1"=1000'	Tract Acreage: 886±	
Lat. & Long Metadata Method: DIRECT GPS		Accuracy: ±3 ft.	Datum: NAD83	Elevation Metadata Method: DIRECT GPS	Accuracy: ±3 ft.	Datum: NAVD88
					Survey Date: 05/25/2016	

WELL LOCATION PLAT

Page 2 Notifications

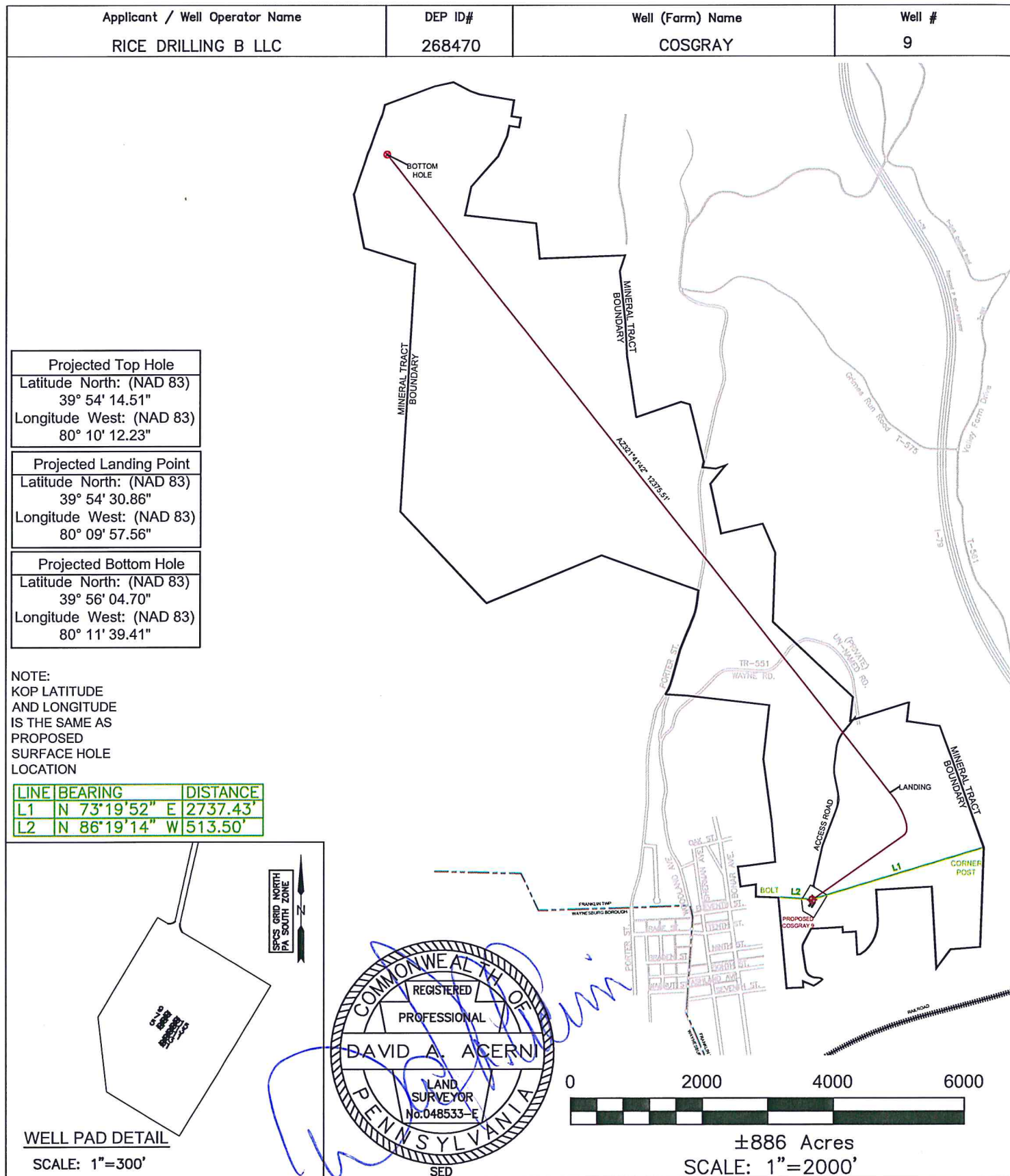
DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil and gas resources is **1-866-255-5158**.

Applicant / Well Operator Name RICE DRILLING B LLC	DEP ID# 268470	Well (Farm) Name COSGRAY	Well # 9	Serial #
Surface Landowner / Lessor: JESACH PROPERTIES		Angle & Course of Deviation (Drilling): N 29°46'07" W 13056.48'	Anticipated True Vertical Depth Feet (TVD): 7725	Anticipated Total Measured Depth Feet (TMD): 20809.20'
Target Formation(s): MARCELLUS		Deepest Formation to be penetrated: MARCELLUS	Number of laterals: 1	Total footage to be drilled all laterals: 20809.20'
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
1. LAWRENCE RODNEY G ET UX		39°53'49.38" 80°10'27.41"		
2. HOOK ELIZABETH A. ET CON		39°54'13.19" 80°10'24.06"		
3. HARING CARL G ET UX		39°54'06.05" 80°10'25.03"		
4. THROCKMORTON DARYL L ET UX		39°53'55.11" 80°10'41.02"		
5. MOREHEAD ROSEMARIE		39°53'51.08" 80°10'34.63"		
6. CUMBERLEDGE DAVID J ET UX		39°53'47.13" 80°10'26.58"		
Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		Municipality: where the well will be drilled, adjacent to the well, or within 3000 feet		
FRANKLIN TOWNSHIP				
WASHINGTON TOWNSHIP		Coal related parties		
MORGAN TOWNSHIP		EMERALD CONTURA, LLC-OWNER,PITTSBURGH &		
JEFFERSON TOWNSHIP		FREEPORT SEAMS		
WHITELEY TOWNSHIP		JESACH PROPERTIES-OWNER,ALL OTHER SEAMS		
WAYNE TOWNSHIP		EMERALD CONTURA, LLC-OPERATOR,EMERALD 1 MINE		
CENTER TOWNSHIP				
MORRIS TOWNSHIP				
WAYNESBURG BOROUGH				

WELL LOCATION PLAT

Page 3 Plan View of Deviated Well Bore

If well has a lateral other than vertical show the bottom hole location on the plat drawing as ⊗ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses of the actual wellbore to be drilled.



WELL LOCATION PLAT

Page 4 Cross Section

Applicant / Well Operator Name Rice Drilling B LLC	DEP ID# 268470	Well (Farm) Name COSGRAY	Well # 9
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WELL PLAN

DEP Use Only

Permit #

Operator name : Rice Drilling B LLC

Well / Farm name : COSGRAY

		Latitude	Longitude
KOP :	TVD : 2100.00 TMD : 2100.00	39°54'14.51"N	80°10'12.23"W
Landing Point :	TVD : 7725.00 TMD : 8433.73	39°54'30.86"N	80°09'57.56"W
Bottom Hole Point :	TVD : 7725.00 TMD : 20809.20	39°56'04.70"N	80°11'39.41"W

Azimuths to True North
Magnetic North : 9.07°

Magnetic Field
Strength : 20,148.8
Dip Angle : 67.00°
Date : 03/27/2014
Model : IGRF-12

NAD 83

