



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT
WELL LOCATION PLAT

DEP USE ONLY	Auth ID #:	12-11-15
	Permit #:	G: BEH
	Project #:	C:

PAGE 1 Surface location

Denotes location of well on topo map

True Latitude: NORTH (NAD83)

41° 00' 12.37"

True Longitude: WEST (NAD83)

79° 52' 07.90"

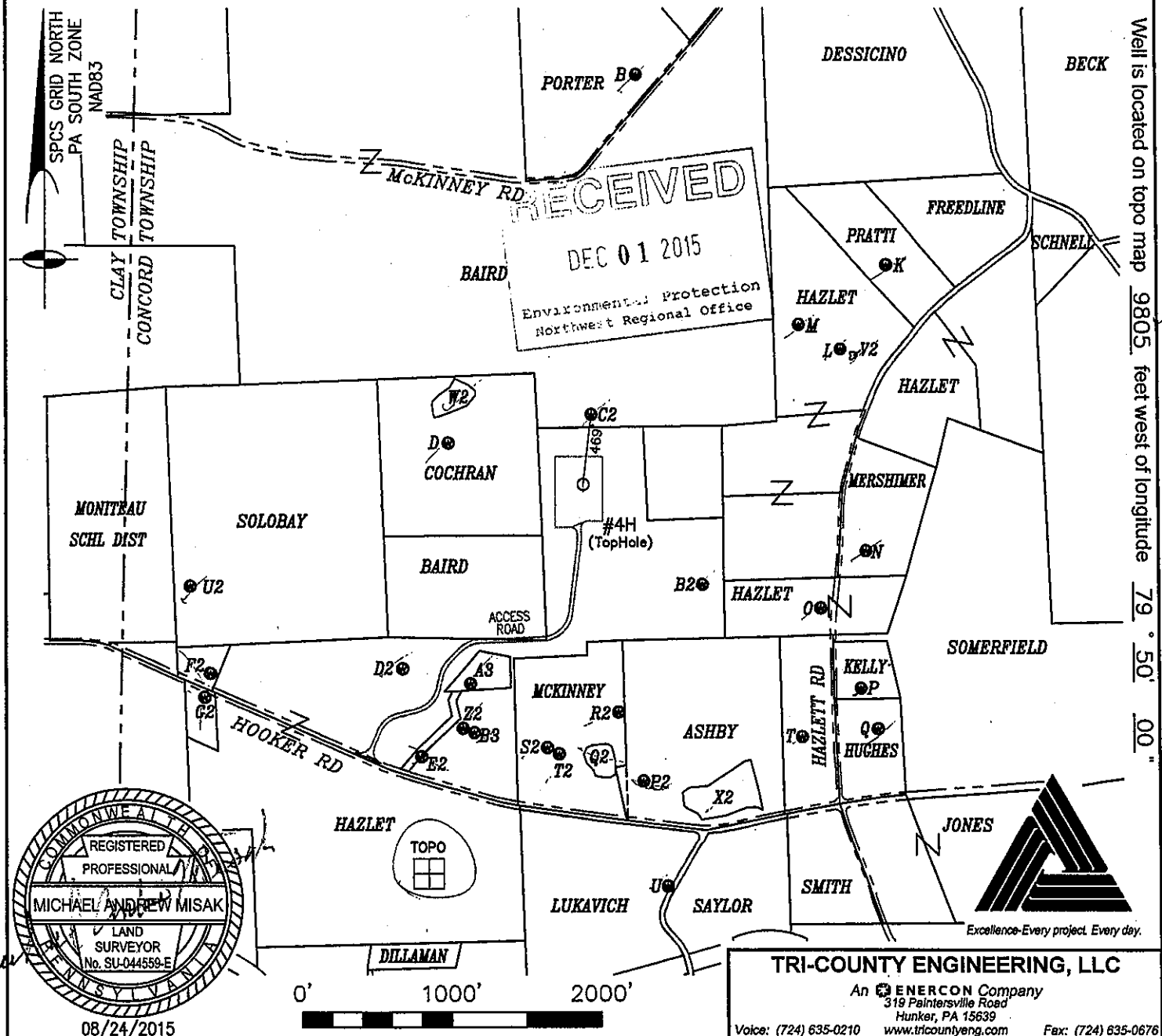
Well is located on topo map 13928 feet south of latitude 41° 02' 30"

NOTE:

THIS PLAT IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY. CORNERS AND LINES PERTINENT TO LOCATING THE PROPOSED WELL ARE FROM FIELD SURVEY. OTHER LINES AND FEATURES SHOWN ARE FROM TAX MAPS AND/OR DEEDS. THE INFORMATION PRESENTED SHOULD NOT BE UTILIZED FOR ANY OTHER PURPOSES. THIS PROPERTY IS SUBJECT TO ANY EASEMENTS, RIGHT-OF-WAY AND/OR ENCUMBRANCES BOTH APPARENT AND OF RECORD. NO TITLE SEARCH HAS BEEN MADE IN PREPARATION OF THIS WELL PLAT.

LEGEND

—	SURFACE BOUNDARY
○	PROPOSED GAS WELL TOPHOLE
*	EXISTING GAS WELL
●	SURFACE LANDOWNER - WATER SUPPLY



TRI-COUNTY ENGINEERING, LLC

An ENERCON Company
319 Paintersville Road
Hunker, PA 15639
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Voice: (724) 635-0210

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Applicant / Well Operator Name: R.E. GAS DEVELOPMENT, LLC		DEP ID #: 290866	Well (Farm) Name: BAIRD UNIT		Well #: 4H	Serial #:
Address: 366 WALKER DRIVE, STATE COLLEGE, PA 16801		County: BUTLER - 10	Municipality: CONCORD TOWNSHIP		Well Type: GAS	
911 Address of Well Site: 435 HOOKER ROAD, WEST SUNBURY, PA 16016		USGS 7 1/2' Quadrangle Map Name: HILLIARDS 1007	Map Section: 7		Surface Elevation: 1386	
Surveyor or Engineer: MICHAEL A. MISAK TRI-COUNTY ENGINEERING, LLC	Phone #: (724) 635-0210	Dwg. #: REXOG60-04-4H	Date: 08/17/2015	Scale: 1" = 1000'	Tract Acreage: 2013.95	
Lat. & Long Metadata Method: Direct GPS	Accuracy: SUB-METER	ft. Datum: NAD 83	Elevation Metadata Method: Direct GPS	Accuracy: 2'	ft. Datum: NAVD 88	Survey Date: 7/23/2015

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 & gas resources is **1-866-255-5158**.

Applicant / Well Operator Name: R.E. GAS DEVELOPMENT, LLC		DEP ID #: 290866	Well (Farm) Name: BAIRD UNIT	Well #: 4H	Serial #:
Surface Landowner / Lessor: GEORGE HAZLET JR ET AL			Angle & Course of Deviation (Drilling): SEE PAGE 4	Anticipated True Vertical Depth Feet (TVD): B=5231, M=5467	Anticipated Total Measured Depth Feet (TMD): B=15493, M=15729
Target Formation (s): BURKETT/MARCELLUS			Deepest Formation to be Penetrated: MARCELLUS	Number of laterals: 2	Total Wellbore Footage to be drilled all laterals: 26817
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude / Longitude of Water Supply		
B) NANCY J & CHARLES E PORTER			N41°00'39.46" W79°52'04.03"		
D) JAMES B & DEBRA A COCHRAN			N41°00'14.87" W79°52'19.78"		
K) DAVID R & LINDA J PRATTI			N41°00'27.26" W79°51'41.78"		
L) CLARENCE E HAZLET			N41°00'21.63" W79°51'45.67"		
M) CLARENCE E HAZLET			N41°00'23.18" W79°51'49.35"		
N) DEWAYNE P & SUE A MERSHIMER			N41°00'08.45" W79°51'43.05"		
O) WILLIAM D III & WENDY JO HAZLET			N41°00'04.60" W79°51'47.00"		
P) AMY S & MICHAEL P KELLY			N40°59'59.40" W79°51'43.30"		
Q) DIANE M & GREGORY E HUGHES			N40°59'56.77" W79°51'41.74"		
T) KEVIN T ISOVITSCH			N40°59'56.13" W79°51'48.40"		
U) JEAN M & STEPHANIE LUKAVICH			N40°59'46.10" W79°51'59.88"		
B2) GEORGE HAZLET JR ET AL			N41°00'05.97" W79°51'57.33"		
C2) DUWAYNE L BAIRD JR ET AL			N41°00'16.99" W79°52'07.31"		
D2) GEORGE HAZLET JR ET AL			N40°59'59.97" W79°52'23.33"		
E2) GEORGE HAZLET JR ET AL			N40°59'54.23" W79°52'21.55"		
F2) PATRICIA D RASP			N40°59'59.34" W79°52'40.12"		
G2) WENDY S HAZLET & DOUGLAS PROTZMAN			N40°59'57.78" W79°52'40.57"		
P2) MARSHALL W ASHBY			N40°59'52.97" W79°52'02.16"		
Q2) ROBERT L MCKINNEY			N40°59'53.36" W79°52'04.66"		
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		
CONCORD TOWNSHIP - BUTLER COUNTY					
FAIRVIEW TOWNSHIP - BUTLER COUNTY					
PARKER TOWNSHIP - BUTLER COUNTY					
WASHINGTON TOWNSHIP - BUTLER COUNTY			Coal related parties		
CHERRY TOWNSHIP - BUTLER COUNTY					
CLAY TOWNSHIP - BUTLER COUNTY					
CENTER TOWNSHIP - BUTLER COUNTY					
OAKLAND TOWNSHIP - BUTLER COUNTY					
DONEGAL TOWNSHIP - BUTLER COUNTY					

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.

Applicant / Well Operator Name:
R.E. GAS DEVELOPMENT, LLC

DEP ID #:
290866

Well (Farm) Name:
BAIRD UNIT

Well #:
4H

Serial #:

SPCS GRID NORTH
 PA SOUTH ZONE
 NAD83

LEGEND
 ○ PROPOSED GAS WELL TOPHOLE
 ⊙ PROPOSED GAS WELL LANDING POINT
 ⊗ PROPOSED GAS WELL BOTTOMHOLE
 --- WELL BORE
 - - - WELL TIE LINES
 ===== MINERAL TRACT BOUNDARY

2013.95 ACRES
 A = S 71°40'36" E 6432.74'
 B = N 74°37'08" E 3923.76'

Proposed Top Hole	Proposed Landing Point	Proposed Bottom Hole
Latitude: NORTH NAD83 41° 00' 12.37"	Latitude: NORTH NAD83 41° 00' 20.11"	Latitude: NORTH NAD83 41° 01' 35.91"
Longitude: WEST NAD83 79° 52' 07.90"	Longitude: WEST NAD83 79° 52' 08.00"	Longitude: WEST NAD83 79° 53' 27.02"

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#4H
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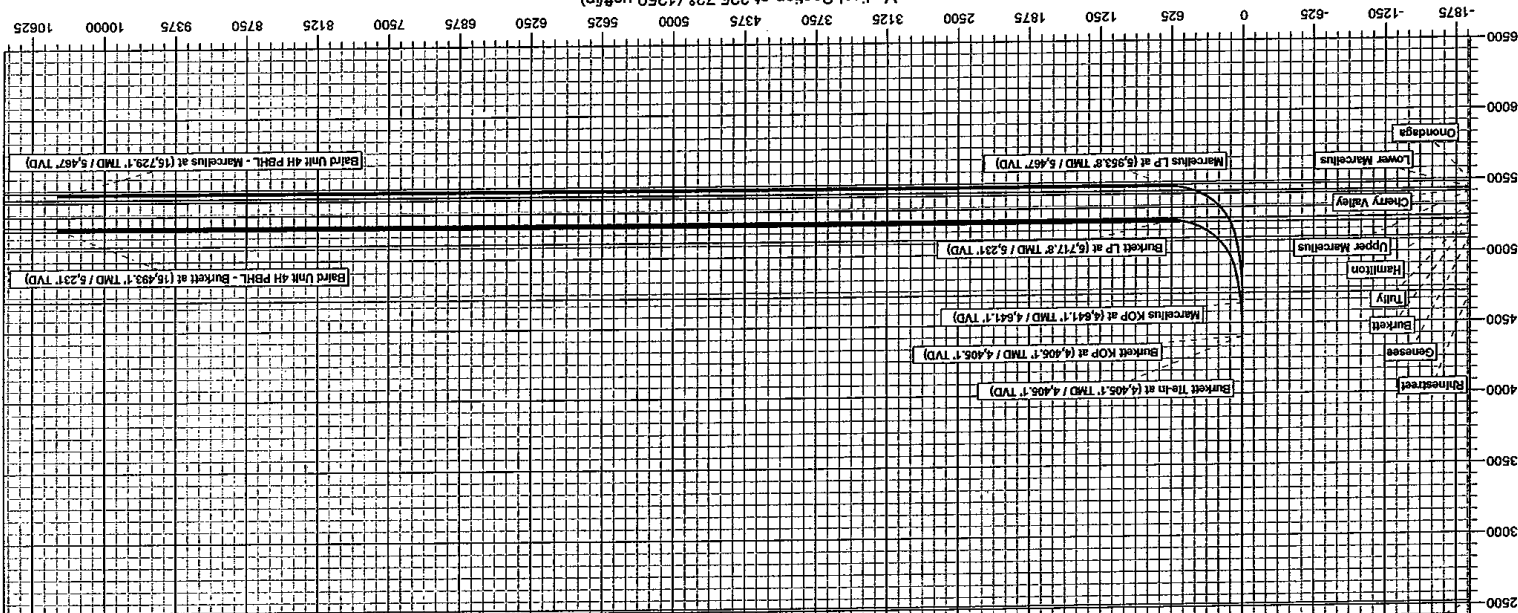
WELL PAD



WELL DETAILS: Baird Unit 4H

Ground Level: 1386.0
+N/-S 45.6
+E/-W -0.4
Northing 615432.98
Easting 1383706.30
Latitude 41° 0' 12.370 N
Longitude 79° 52' 7.900 W

Baird Well Pad		
Formation		
SSTVD @ 0' VS	TVD @ 0' VS	
Base Murrysville	-237	1641
Elk Sand	-1115	2519
Rhinesstreet	-3311	4715
Genesee	-3704	5108
Burkett	-3812	5216
Tully	-3839	5243
Hamilton	-3914	5318
Upper Marcellus	-4009	5413
Cherry Valley	-4028	5432
Lower Marcellus	-4033	5437
Onondaga	-4077	5481



Vertical Section at 325.73° (1250 usft/in)