



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program
WELL LOCATION PLAT

DEP USE ONLY	DEP Application Tracking #	G: <i>10/14/11</i>
	Permit # 019-21902	C:
	Project #	

☐ Denotes location of well on topo map
True Latitude: NORTH (NAD83) 40° 44' 04.74"
True Longitude: WEST (NAD83) 79° 53' 28.32"
Projected bottom hole
Latitude: NORTH (NAD83) 40° 44' 23.37"
Longitude: WEST (NAD83) 79° 53' 51.59"

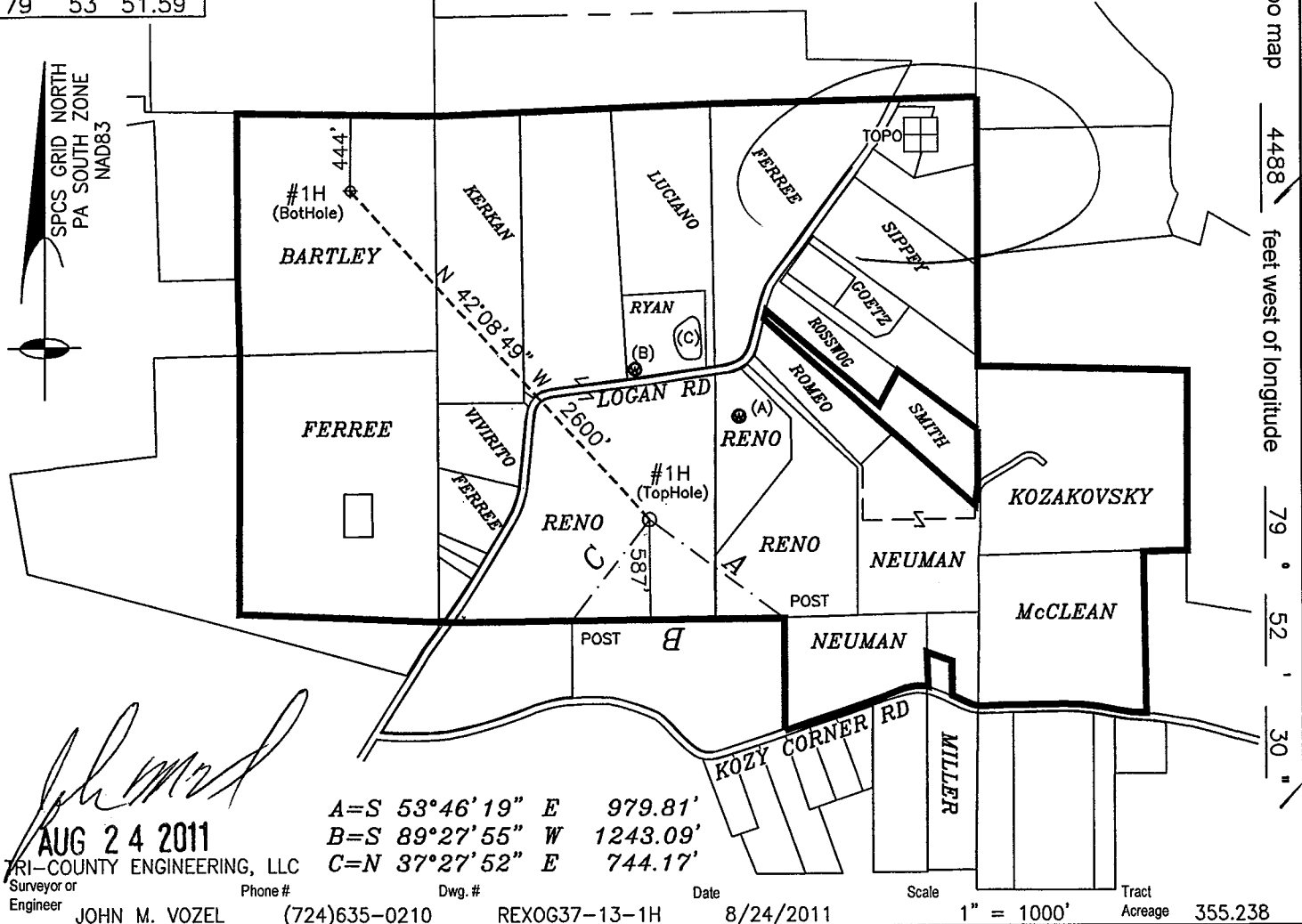
Well is located on topo map 5592 feet south of latitude 40° 45' 00"
0' 1000' 2000'

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.

NOTE: ALL PROPERTY OWNER AND DEED REFERENCE INFORMATION SHOWN SHALL BE PREFACED BY "N/F" (NOW OR FORMERLY).

LEGEND	
—	SURFACE BOUNDARY
○	PROPOSED GAS WELL TOPHOLE
⊕	PROPOSED GAS WELL BOTTOMHOLE
*	EXISTING GAS WELL
⊙	PURVEYOR - WATER WELL
⊙	PURVEYOR - SPRING
---	WELL TIE LINES
---	WELL BORE
---	TRACT BOUNDARY

SPCS GRID NORTH
PA SOUTH ZONE
NAD83



A=S 53°46'19" E 979.81'
B=S 89°27'55" W 1243.09'
C=N 37°27'52" E 744.17'

AUG 24 2011
TRI-COUNTY ENGINEERING, LLC

Surveyor or Engineer **JOHN M. VOZEL** Phone # **(724)635-0210**

Dwg. #

REXOG37-13-1H

Date

8/24/2011

Scale

1" = 1000'

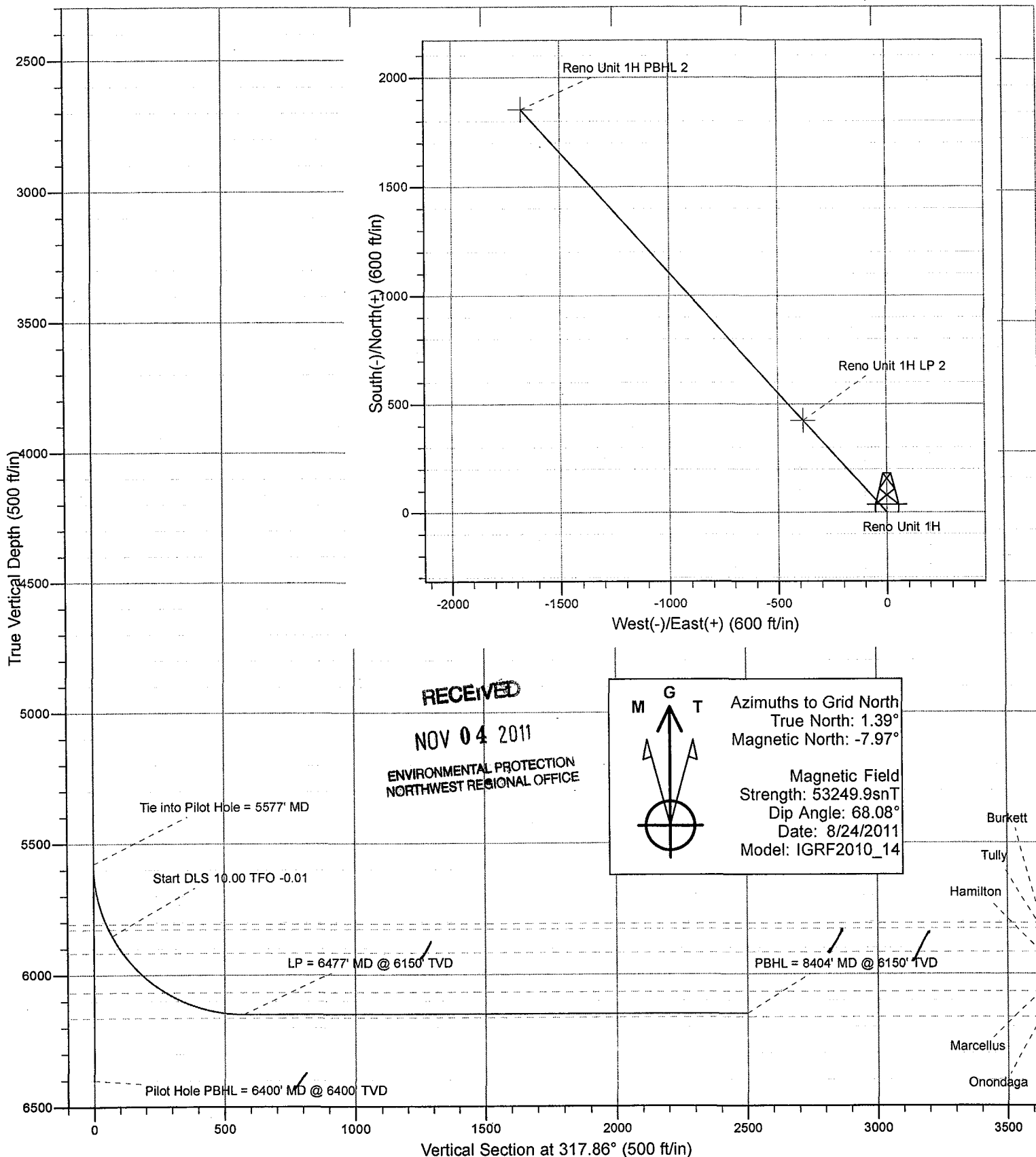
Tract

Acreage 355.238

Lat. & Long Metadata Method Direct GPS Accuracy SUB-METER ft. Datum NAD 83		Elevation Metadata Method USGS TOPO Accuracy 5' ft. Datum NGVD29		Survey Date 7/22/11	
Applicant / Well Operator Name REX ENERGY CORP.		Well (Farm) Name RENO UNIT		Well # 1H	Serial #
Address 476 ROLLING RIDGE DRIVE, SUITE 300 STATE COLLEGE, PA 16801		County - Code BUTLER - 10	Municipality MIDDLESEX TOWNSHIP	Well Type GAS	
Surface Landowner / Lessor JAY H. RENO & NANCY L. RENO		USGS 71/2 Quadrangle Map Name VALENCIA		Map Section 3	Surface Elevation 1195 ft.
Target Formation(s) MARCELLUS		Angle & Course of Deviation (Drilling) DEVIATED - SEE ATTACHED		Anticipated Total Depth TVD 6400 TMD 8404	
Surface Owner or Water Purveyor within a Water Supply within 1000 ft.		Approximate Course and Distance to Water Supply		Name of Coal Seam Owned, Leased, or Operated	
A) JOHN H., II & CHRIS L. RENO		N 41°07' E 801'		NON-COAL	
B) BRENDAN E. RYAN		N 05°26' W 884'			
C) BRENDAN E. RYAN (Pond)		N 12°48' E 962'			

OCT 11 2011
ENVIRONMENTAL PROTECTION
NORTHWEST REGIONAL OFFICE

Project: Butler County, PA
Site: Butler County Reno 1H
Well: Reno Unit 1H
Wellbore: Reno Unit
Design: Plan 4





pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

PAGE 1 Surface location

DEP USE ONLY	Auth ID #:	
	Permit #:	29-2902
	Project #:	

Denotes location of well on topo map

True Latitude: NORTH (NAD83)

40° 44' 04.74"

True Longitude: WEST (NAD83)

79° 53' 28.32"

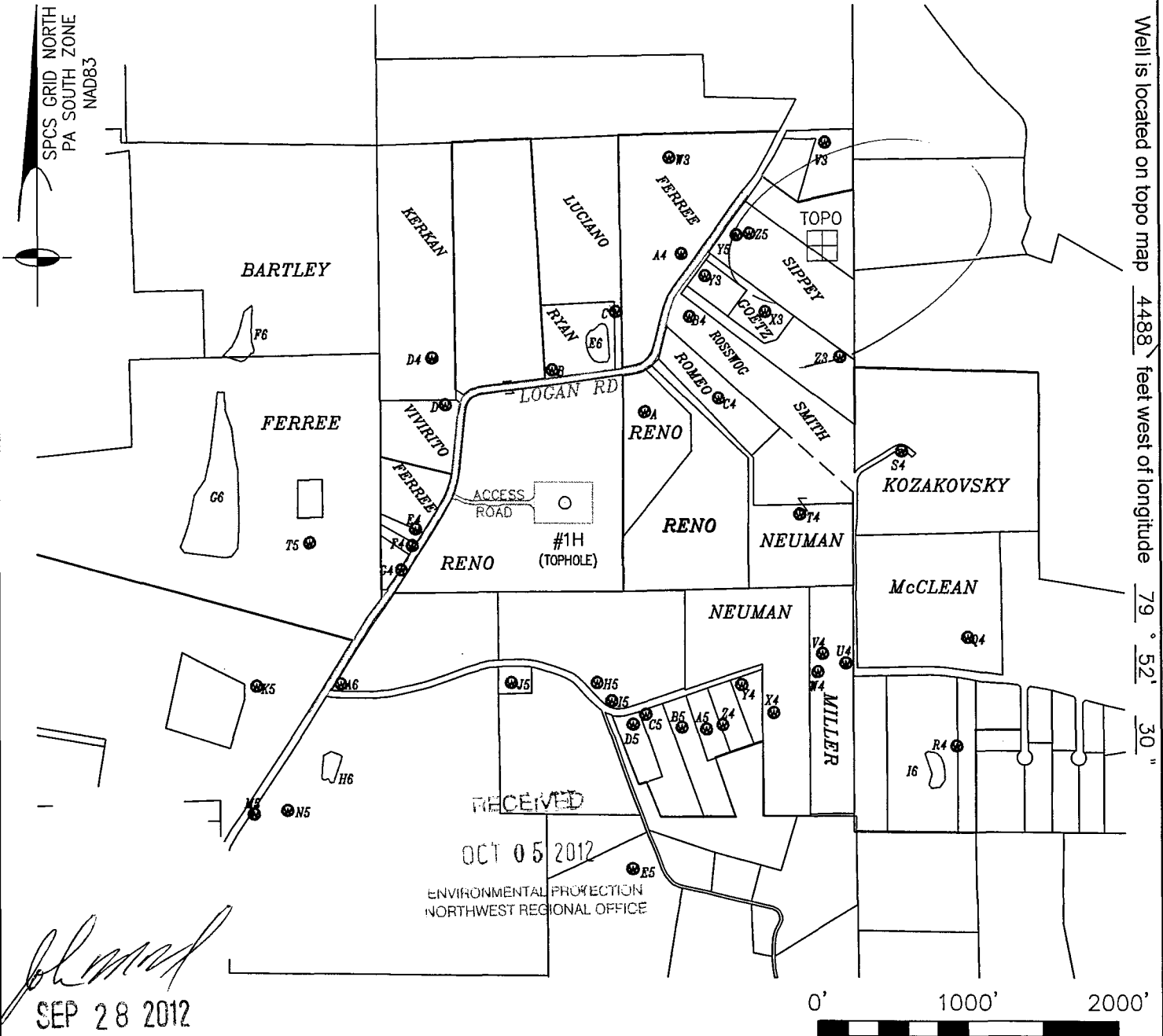
Well is located on topo map 5592 feet south of latitude 40° 45' 00"

NOTE:

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LEGEND

	SURFACE BOUNDARY
	PROPOSED GAS WELL TOPHOLE
	EXISTING GAS WELL
	SURFACE LANDOWNER - WATER SUPPLY



Well is located on topo map 4488 feet west of longitude 79° 52' 30"

Applicant / Well Operator Name: REX ENERGY OPERATING CORP.		DEP ID #: 260727	Well (Farm) Name: RENO UNIT		Well #: 1H	Serial #:
Address: 476 ROLLING RIDGE DRIVE, SUITE 300, STATE COLLEGE, PA 16801		County: BUTLER - 10	Municipality: MIDDLESEX TOWNSHIP		Well Type: GAS	
911 Address of Well Site: 191 LOGAN ROAD, VALENCIA, PA 16059		USGS 7 1/2' Quadrangle Map Name: VALENCIA	Map Section: 3		Surface Elevation: 1195	
Surveyor or Engineer: JOHN M. VOZEL TRI-COUNTY ENGINEERING, LLC	Phone #: (724)635-0210	Dwg. #: REXOG37-13-1H	Date: 9/28/2012	Scale: 1" = 1000'	Tract Acreage: 622.80	
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: 7/22/11

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: REX ENERGY OPERATING CORP.		DEP ID #: 260727	Well (Farm) Name: RENO UNIT	Well #: 1H	Serial #:
Surface Landowner / Lessor: JAY H RENO & NANCY L RENO		Angle & Course of Deviation (Drilling): DEVIATED—SEE ATTACHED	Anticipated True Vertical Depth Feet (TVD): 5,361	Anticipated Total Measured Depth Feet (TMD): 10,158	
Target Formation (s): MARCELLUS		Deepest Formation to be Penetrated: MARCELLUS	Number of laterals: 1	Total Wellbore Footage to be drilled all laterals: 10,158	
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude / Longitude of Water Supply		
A) JOHN H II & CHRIS L RENO			N40°44'10.83" W79°53'21.67"		
B) BRENDAN E & LINDA M RYAN			N40°44'13.41" W79°53'29.68"		
C) BRENDAN E & LINDA M RYAN			N40°44'17.35" W79°53'24.30"		
D) JOSEPH VIVIRITO			N40°44'10.96" W79°53'38.91"		
V3) MICHAEL J & MARILYN S LAROCCA			N40°44'28.76" W79°53'06.52"		
W3) ROBERT A & JUDITH L FERREE			N40°44'27.51" W79°53'20.02"		
X3) BRUCE E & ARLENE GOETZ			N40°44'17.59" W79°53'11.39"		
Y3) GREGORY & ANN SCHNEIDER			N40°44'19.83" W79°53'16.70"		
Z3) JEFFREY P & TAMARA A MANJEROVIC			N40°44'14.73" W79°53'04.84"		
A4) ROBERT A & JUDITH L FERREE			N40°44'21.23" W79°53'18.80"		
B4) DANIEL J & REBECCA A ROSSWOG			N40°44'17.13" W79°53'17.95"		
C4) JOHN A & PAMELA J ROMEO			N40°44'11.84" W79°53'15.29"		
D4) DANIEL O & JUNE A KERKAN			N40°44'14.01" W79°53'40.09"		
E4) GILBERT L & MARIANN R WATSON			N40°44'02.80" W79°53'41.16"		
F4) WILLIAM E & LINDA K RODGERS			N40°44'01.71" W79°53'41.41"		
G4) DENNIS M & SUSAN B ACON			N40°44'00.08" W79°53'42.31"		
Q4) THOMAS C & MARJORIE McCLEAN			N40°43'56.65" W79°52'53.33"		
R4) JOHN P & ANITA A MORRISON			N40°43'49.53" W79°52'54.11"		
S4) MAE KOZAKOVSKI			N40°44'08.69" W79°52'59.36"		
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		
MIDDLESEX TOWNSHIP - BUTLER COUNTY					
ADAMS TOWNSHIP - BUTLER COUNTY					
FORWARD TOWNSHIP - BUTLER COUNTY					
PENN TOWNSHIP - BUTLER COUNTY			RECEIVED Coal related parties		
JEFFERSON TOWNSHIP - BUTLER COUNTY			NON-COAL OCT 05 2012		
CLINTON TOWNSHIP - BUTLER COUNTY			ENVIRONMENTAL PROTECTION NORTHWEST REGIONAL OFFICE		
RICHLAND TOWNSHIP - ALLEGHENY COUNTY					
WEST DEER TOWNSHIP - ALLEGHENY COUNTY					

WELL LOCATION PLAT

PAGE 2 Notifications

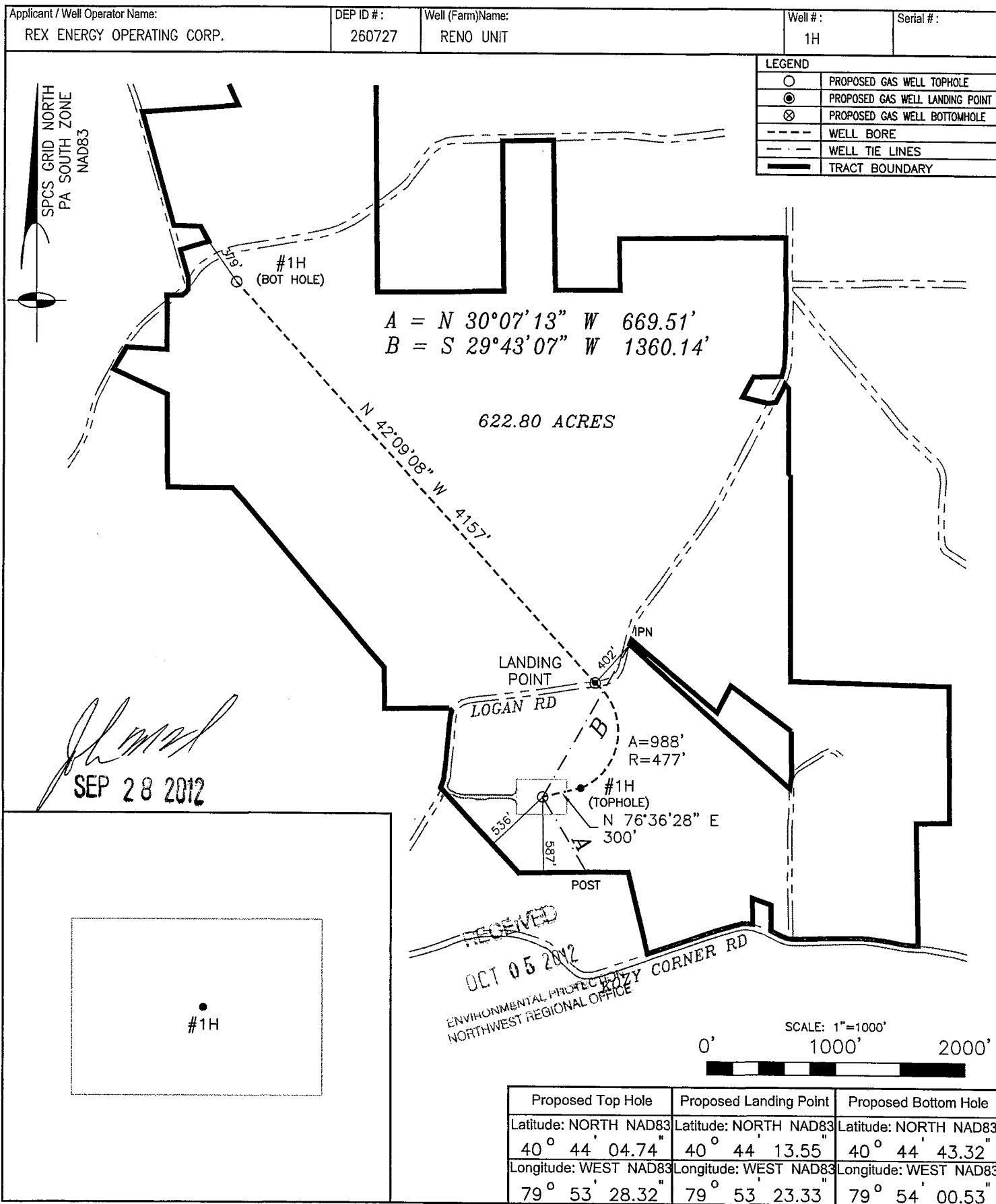
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Applicant / Well Operator Name: REX ENERGY OPERATING CORP.	DEP ID #: 260727	Well (Farm) Name: RENO UNIT	Well #: 1H	Serial #:
Surface Landowner / Lessor: JAY H RENO & NANCY L RENO		Angle & Course of Deviation (Drilling): DEVIATED-SEE ATTACHED	Anticipated True Vertical Depth Feet (TVD): 5,361	Anticipated Total Measured Depth Feet (TMD): 10,158
Target Formation (s): MARCELLUS		Deepest Formation to be Penetrated: MARCELLUS	Number of laterals: 1	Total Wellbore Footage to be drilled all laterals: 10,158
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude / Longitude of Water Supply		
T4) MICHAEL R & SUSAN L NEUMAN		N40°44'04.41" W79°53'08.02"		
U4) EDWARD A & TONI MILLER		N40°43'54.74" W79°53'03.82"		
V4) EDWARD W & JUDITH L THOMA		N40°43'55.32" W79°53'05.84"		
W4) MARGARET L WISE		N40°43'54.12" W79°53'06.21"		
X4) DANE W & CARRIE J POWELL		N40°43'51.40" W79°53'09.93"		
Y4) MARK E & JANE F MANZER		N40°43'53.17" W79°53'12.77"		
Z4) JAMES S & KATHLEEN M POWERS		N40°43'50.52" W79°53'14.33"		
A5) DAVID J & CHERYL L ORBAN		N40°43'50.20" W79°53'15.75"		
B5) JAN BERNKOPF		N40°43'50.28" W79°53'17.88"		
C5) GREGG & ELLEN S FIORINA		N40°43'51.07" W79°53'21.02"		
D5) CARL THOMAS & SANDRA A BENNARDO		N40°43'50.42" W79°53'22.06"		
E5) JEROME J & JANE A HORNYAK		N40°43'40.97" W79°53'21.85"		
H5) ROBERT F KIRSTEIN		N40°43'53.07" W79°53'25.24"		
I5) ROBERT F KIRSTEIN		N40°43'51.91" W79°53'23.92"		
J5) KENNETH M & KELLY M SUTTER		N40°43'52.91" W79°53'32.67"		
K5) MARY R DAWSON		N40°43'52.25" W79°53'54.63"		
M5) JAY H & NANCY L RENO		N40°43'43.89" W79°53'54.61"		
N5) JAY H & NANCY L RENO		N40°43'44.19" W79°53'51.75"		
T5) EDWARD E FERREE		N40°44'01.71" W79°53'50.34"		
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		
RECEIVED				
OCT 05 2012				
ENVIRONMENTAL PROTECTION NORTHWEST REGIONAL OFFICE		Coal related parties		

WELL LOCATION PLAT

PAGE 3 Plan View Of Deviated Well Bore

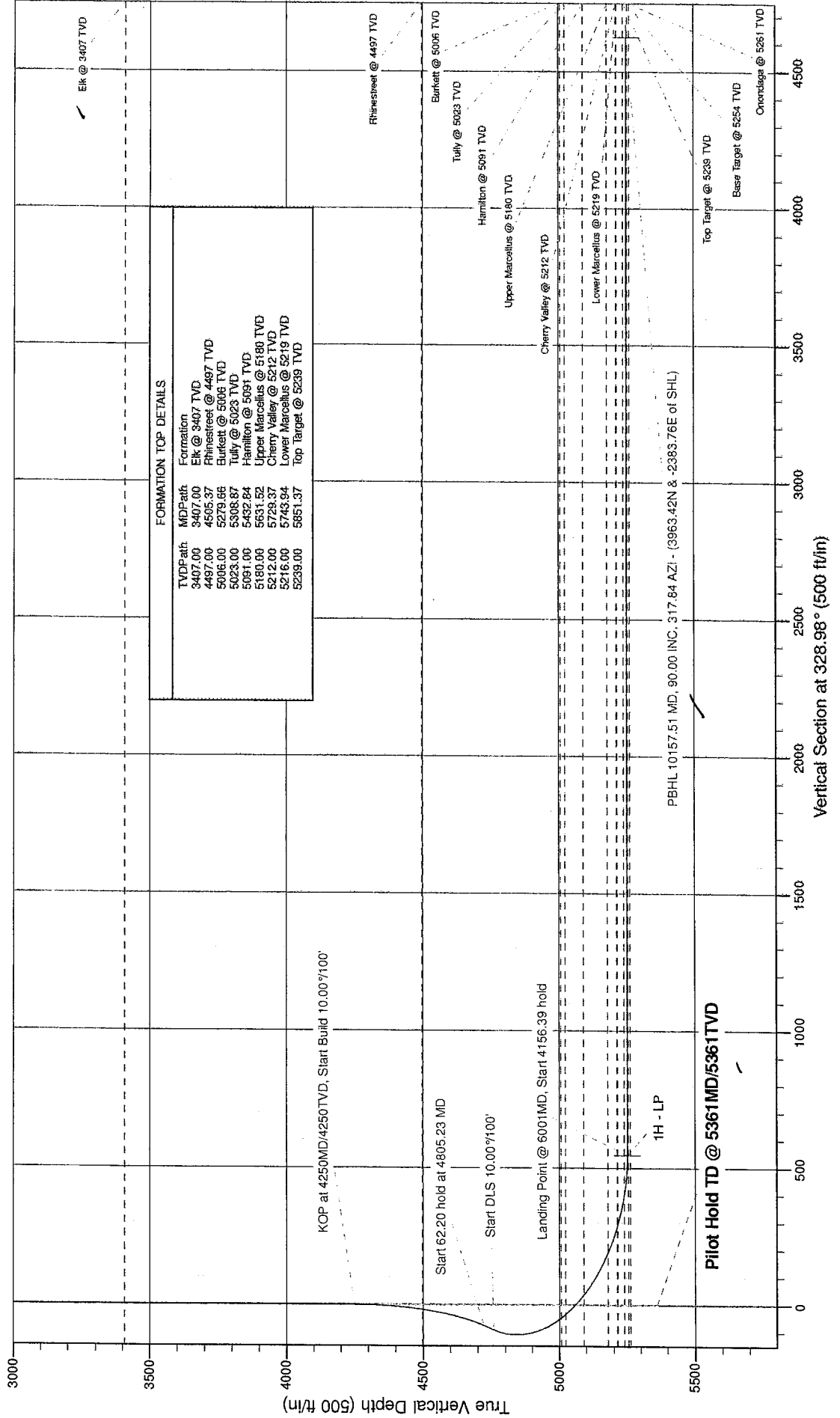
If well has a lateral other than vertical show the bottom hole location on the plat drawing as $\otimes$ and include the Coordinates in the provided section at the bottom of the drawing area. The top hole and bottom hole locations are to be connected by a bolded line this is to depict the proposed courses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





Project: Butler County, PA
 Site: Reno Unit
 Well: Reno Unit 1H
 Wellbore: Orig Hole
 Design: Plan #1 - 9-20-12

DDC
 Directional Drilling Contractors, LLC
 An Archer Company





Project: Butler County, PA
Site: Reno Unit
Well: Reno Unit 1H
Wellbore: Orig Hole
Design: Plan #1 - 9-20-12

WELL DETAILS: Reno Unit 1H						
+N/-S	+E/-W	Northing	Ground Level:	1195.00	Longitude	
0.00	0.00	517682.97	Easting	1375170.69	40° 44' 4.740 N	79° 53' 28.320 W

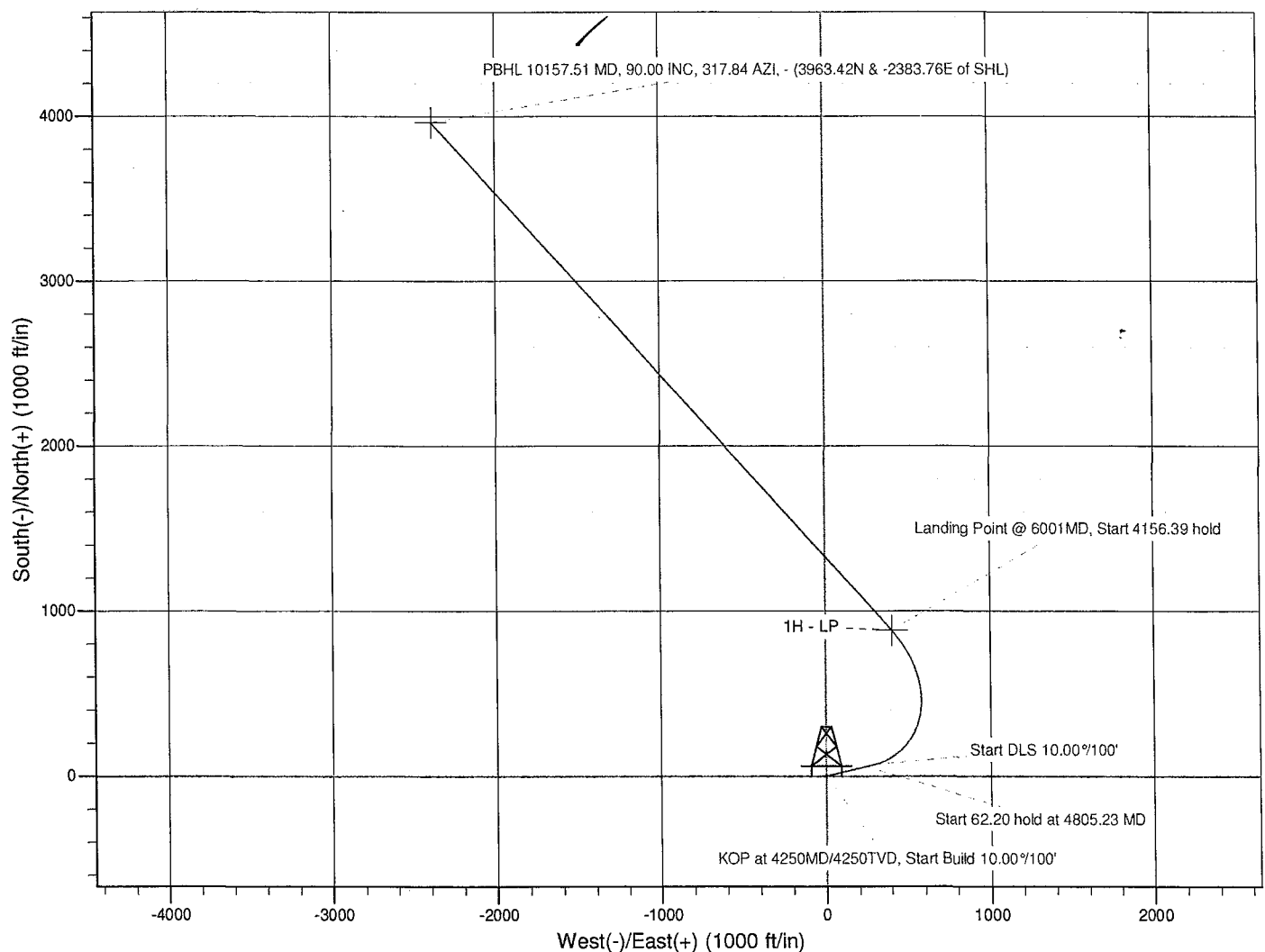
ANNOTATIONS									
TVD	TMD	Inc	Azi	+N/-S	+E/-W	V/Sect	Departure	Annotation	
4250.00	4250.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP at 4250MD/4250TVD, Start Build 10.00°/100'	
4722.32	4805.23	55.52	76.61	57.59	241.86	-75.31	248.62	Start 62.20 hold at 4805.23 MD	
4757.53	4867.43	55.52	76.61	69.46	291.74	-90.84	299.89	Start DLS 10.00°/100'	
5251.00	6001.12	90.00	317.84	882.16	405.75	546.84	1294.12	Landing Point @ 6001MD, Start 4156.39 hold	
5251.00	10157.51	90.00	317.84	3963.42	-2383.76	4625.04	5450.51	PBHL 10157.51 MD, 90.00 INC, 317.84 AZI, - (3963.42N & -2383.76E of SHL)	

DESIGN TARGET DETAILS							
	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
1H - LP	5251.00	882.16	405.75	518565.13	1375576.45	40° 44' 13.551 N	79° 53' 23.328 W
1H - PBHL - plan hits target center	5251.00	3963.42	-2383.76	521646.39	1372786.93	40° 44' 43.320 N	79° 54' 0.530 W

M G T

Azimuths to Grid North
True North: 1.39°
Magnetic North: -7.99°

Magnetic Field
Strength: 53120.5snT
Dip Angle: 67.98°
Date: 09/19/2012
Model: IGRF2010





pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
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OFFICE OF OIL AND GAS MANAGEMENT
WELL LOCATION PLAT

PAGE 1 Surface location

DEP USE ONLY	Auth ID #:	G: 1313 C:
	Permit #: 019-21902	
	Project #:	

☐ Denotes location of well on topo map

True Latitude: NORTH (NAD83)
40° 44' 04.74"

True Longitude: WEST (NAD83)
79° 53' 28.32"

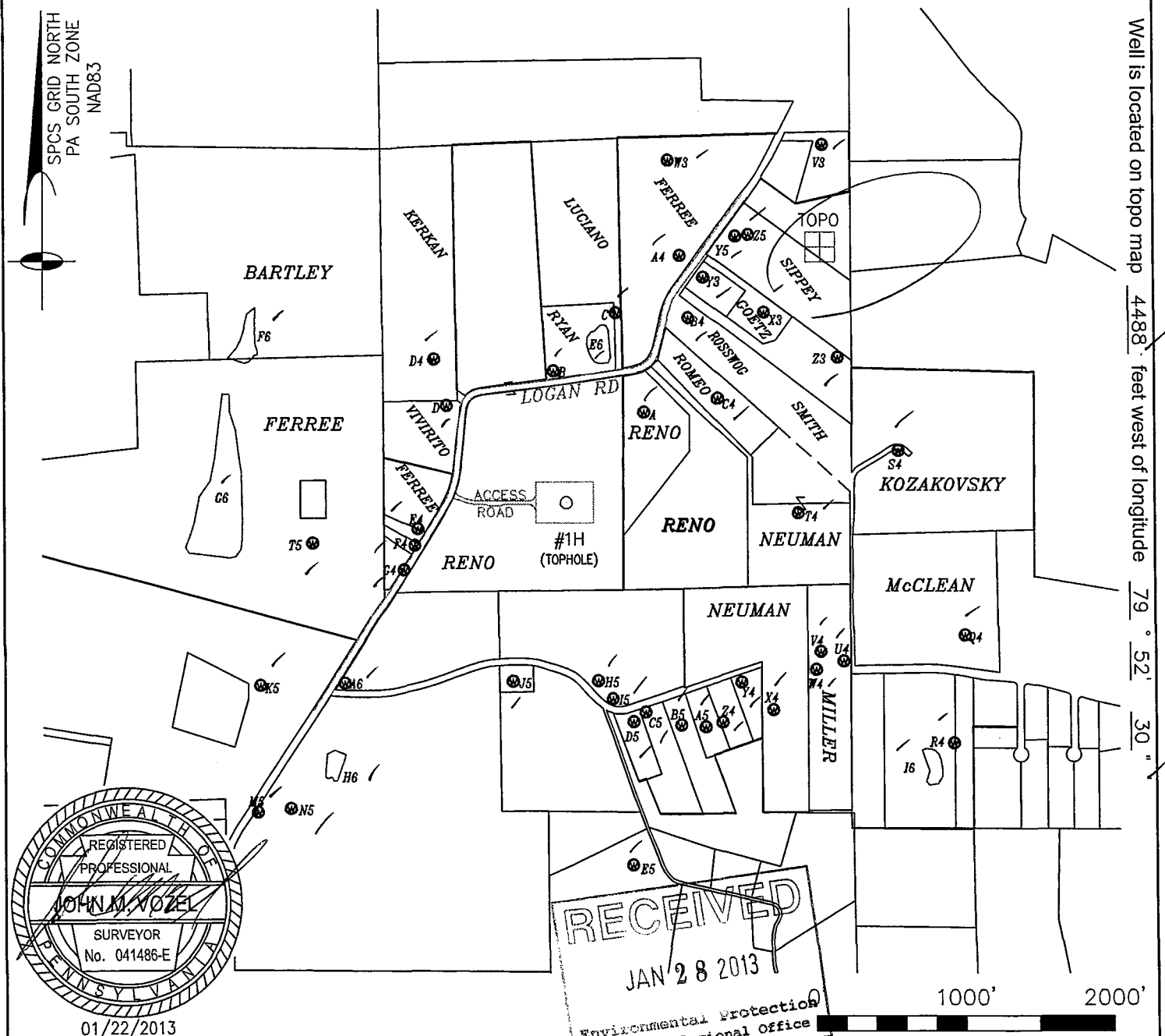
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LEGEND

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



Applicant / Well Operator Name: R.E. GAS DEVELOPMENT, LLC		DEP ID #: 290866	Well (Farm) Name: RENO UNIT		Well #: 1H	Serial #:
Address: 476 ROLLING RIDGE DRIVE, SUITE 300, STATE COLLEGE, PA 16801			County: BUTLER - 10	Municipality: MIDDLESEX TOWNSHIP	Well Type: GAS	
911 Address of Well Site: 191 LOGAN ROAD, VALENCIA, PA 16059			USGS 7 1/2" Quadrangle Map Name: VALENCIA	Map Section: 3	Surface Elevation: 1195	
Surveyor or Engineer: JOHN M. VOZEL TRI-COUNTY ENGINEERING, LLC	Phone #: (724)635-0210	Dwg. #: REXOG37-13-1H	Date: 01/19/2013	Scale: 1" = 1000'	Tract Acreage: 622.80	
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: 7/22/11

WELL LOCATION PLAT

PAGE 2 Notifications

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Applicant / Well Operator Name: R.E. GAS DEVELOPMENT, LLC		DEP ID # : 290866	Well (Farm) Name: RENO UNIT	Well # : 1H	Serial # :
Surface Landowner / Lessor: JAY H RENO & NANCY L RENO		Angle & Course of Deviation (Drilling): DEVIATED—SEE ATTACHED		Anticipated True Vertical Depth Feet (TVD): 6150	Anticipated Total Measured Depth Feet (TMD): 11306
Target Formation (s): MARCELLUS		Deepest Formation to be Penetrated: ONONDAGA		Number of laterals: 1	Total Wellbore Footage to be drilled all laterals: 11306
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude / Longitude of Water Supply		
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MIDDLESEX TOWNSHIP — BUTLER COUNTY //					
ADAMS TOWNSHIP — BUTLER COUNTY //					
FORWARD TOWNSHIP — BUTLER COUNTY //					
PENN TOWNSHIP — BUTLER COUNTY //			Coal related parties		
JEFFERSON TOWNSHIP — BUTLER COUNTY //			NON—COAL		
CLINTON TOWNSHIP — BUTLER COUNTY //					
RICHLAND TOWNSHIP — ALLEGHENY COUNTY //					
WEST DEER TOWNSHIP — ALLEGHENY COUNTY //					

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PAGE 2 Notifications

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Surface Landowner / Lessor: JAY H RENO & NANCY L RENO			Angle & Course of Deviation (Drilling): DEVIATED—SEE ATTACHED	Anticipated True Vertical Depth Feet (TVD): 6150	Anticipated Total Measured Depth Feet (TMD): 11306	
Target Formation (s): MARCELLUS			Deepest Formation to be Penetrated: ONONDAGA	Number of laterals: 1	Total Wellbore Footage to be drilled all laterals: 11306	
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'			Latitude / Longitude of Water Supply			
T4) MICHAEL R & SUSAN L NEUMAN			N40°44'04.41" W79°53'08.02"			
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H5) ROBERT F KIRSTEIN			N40°43'53.07" W79°53'25.24"			
I5) ROBERT F KIRSTEIN			N40°43'51.91" W79°53'23.92"			
J5) KENNETH M & KELLY M SUTTER			N40°43'52.91" W79°53'32.67"			
K5) MARY R DAWSON			N40°43'52.25" W79°53'54.63"			
M5) JAY H & NANCY L RENO			N40°43'43.89" W79°53'54.61"			
N5) JAY H & NANCY L RENO			N40°43'44.19" W79°53'51.75"			
T5) EDWARD E FERREE			N40°44'01.71" W79°53'50.34"			
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			
			Coal related parties			

WELL LOCATION PLAT

PAGE 2 Notifications

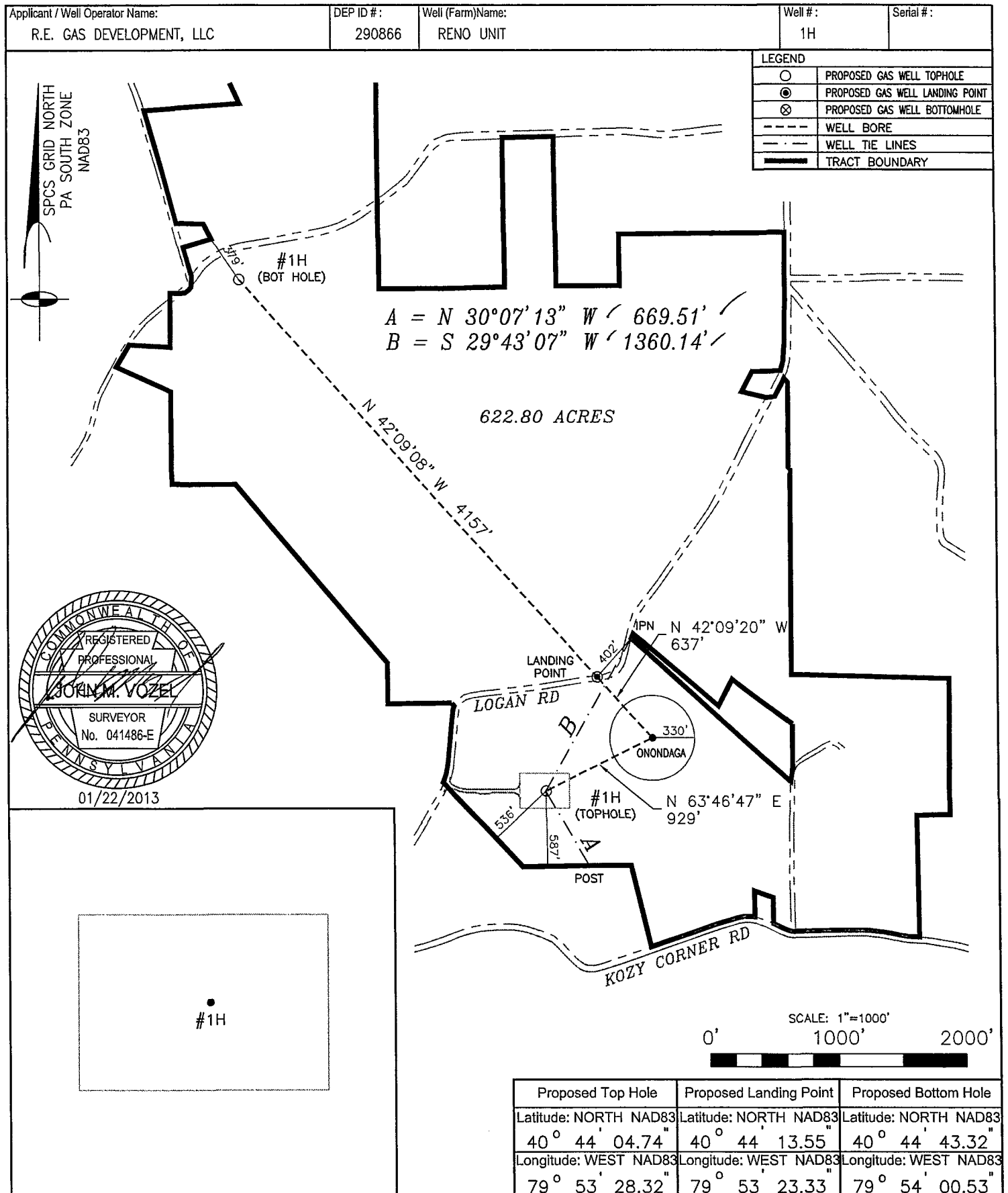
* DEP Statewide toll-free phone number for reporting cases of water contamination which may be associated with development of oil & gas resources is **1-866-255-5158**.

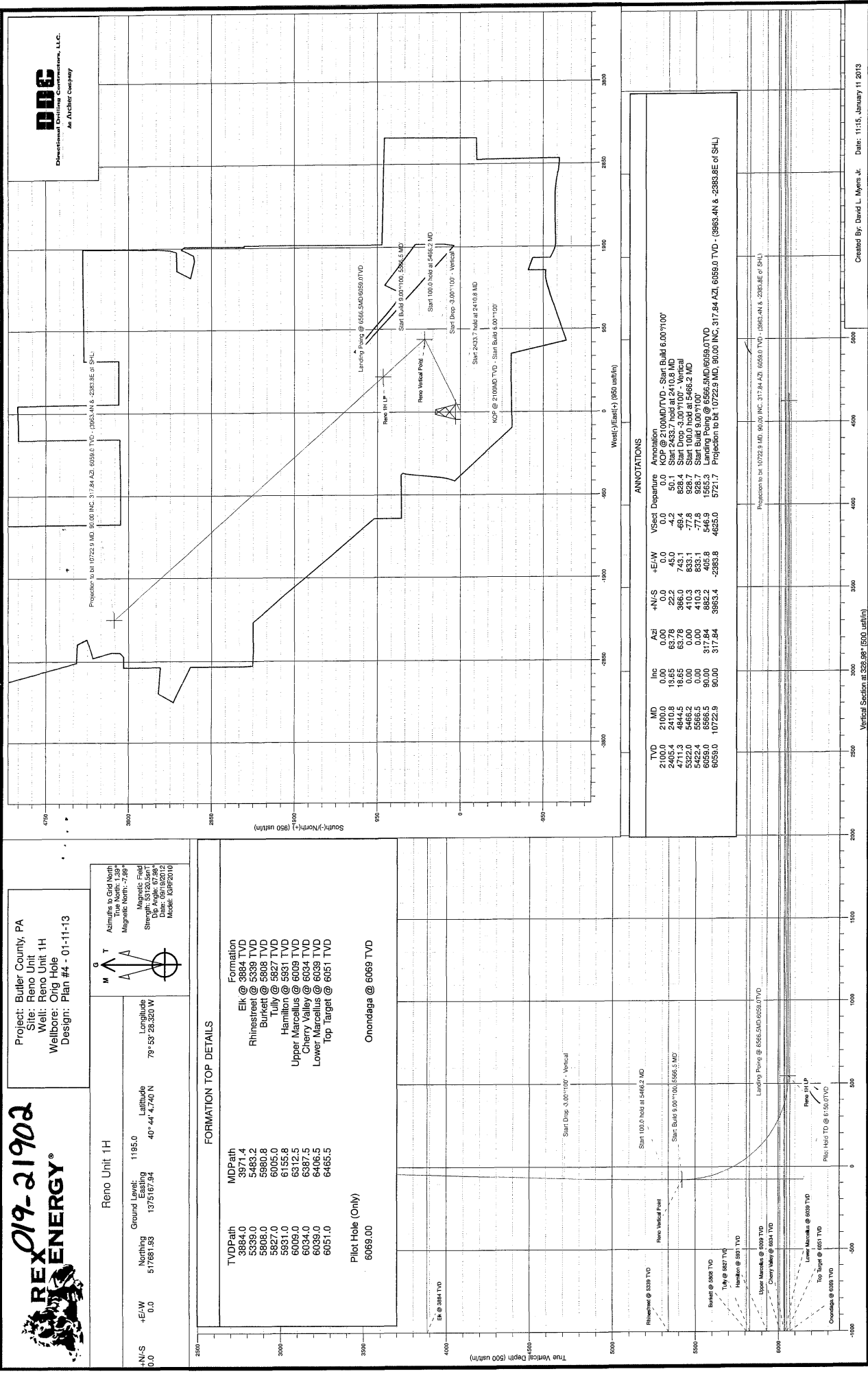
[illegible]

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 $\otimes$ 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.





Project: Butler County, PA
Site: Reno Unit 1H
Wellbore: Orig Hole
Design: Plan #4 - 01-11-13



Reno Unit 1H

Assumes a Grid North
True North: 1.39°
Magnetic North: 7.99°
Magnetic Field
Strength: 50120.5 nT
Declination: 6.60°
Date: 06/10/2012
Model: GPR2010

Ground Level: 1195.0
Northing: 1375167.84
Longitude: 79° 53' 28.320 W

4-N/S 0.0
-E/W 0.0

FORMATION TOP DETAILS	
TVD Path	Formation
3864.0	Elk @ 3864 TVD
5369.0	Rhinestreet @ 5369 TVD
5927.0	Burnett @ 5927 TVD
5931.0	Tully @ 5931 TVD
6009.0	Hamilton @ 6009 TVD
6387.5	Upper Marcellus @ 6387.5 TVD
6034.0	Cherry Valley @ 6034 TVD
6039.0	Lower Marcellus @ 6039 TVD
6051.0	Top Target @ 6051 TVD
Pilot Hole (Only)	
6069.00	Onondaga @ 6069 TVD

