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pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

GEOLOGY

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

DEP USE ONLY	Auth ID # NC-1026226 Permit # 37-007-20434 Project #	6/4/14 G: DMM C: BAK
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37-007-20434-00-00-01-00

Denotes location of top of well on topo map.

Well is located on topo map 4.739 feet south of latitude 40° 47' 30"

True Latitude: NORTH

40° 46' 43" 166"

True Longitude: WEST

80° 10' 13" 827"

4 top hole
(MARCELLUS & UD)
LAT: N40°46'43.166"
LON: W80°10'13.827"

RECEIVED

APR 23 2014

0' 750' 1500'
SCALE IN FEET

1552' FROM NEAREST BLUE LINE STREAM

DEP SWDO
OIL & GASBen Venue Rd
1631

1264' FROM NEAREST WATER WELL

1220' FROM NEAREST BUILDING

STONE
(FOUND)

ACCESS ROAD

S24°05'50"W
1950'IRON PIN
(FOUND)S62°26'02"E
2024'

LEGEND

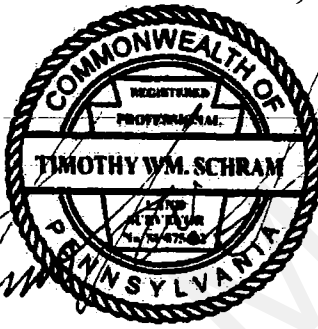
- Existing Edge of Road
- Existing Property Lines
- Existing Road Center Line
- Existing Railroad Center Line
- Existing County Boundary
- Existing Municipal Boundary
- Proposed Gas Well
- Existing Building
- Existing Water Well

DISTANCE FROM SHL TO:
NEAREST BUILDING: 1,220'
NEAREST WATER WELL: 1,264'
NEAREST BLUE LINE STREAM: 1,552'

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NOTE: THIS MAP IS FOR WELL LOCATION PURPOSES ONLY. PROPERTY LINES SHOWN ARE BASED ON DEEDS OF RECORD AND/OR BEAVER COUNTY GIS INFORMATION. THIS MAP DOES NOT REPRESENT A COMPREHENSIVE BOUNDARY SURVEY.

Well is located on topo map 1,063 feet west of longitude -80° 10' 00"



Applicant / Well Operator Name: PENNENERGY RESOURCES, LLC		DEP ID #: 294943	Well (Farm) Name: BEAVER PAD 12		Well #: 4H	Serial #: N/A
Address: 1000 COMMERCE DR, PARK PLACE ONE, STE 100, PITTSBURGH, PA 15275		County: BEAVER	Municipality: MARION TWP	Well Type: GAS		
911 address of well site: 1989 ROUTE 68, ROCHESTER, PA 15074		USGS 71/2 Quadrangle Map Name: ZELIENOPLE	Map Section: 8	Surface Elevation: 1256.5 ft.		
Surveyor or Engineer: TIMOTHY WM. SCHRAM, SR.	Phone #: (724)779-4777	Dwg. #: S0068000435PLATS	Date: 3/7/2014	Scale: 1" = 1500'	Tract Acreage: ±1379	
Lat. & Long Metadata: Static & RTK GPS	Accuracy: +/- 33 ft.	Datum: NAD83	Elevation Metadata: Method: Static & RTK GPS	Accuracy: +/- 1 ft.	Datum: NAVD88	Survey Date: 2/27/2014

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 PennEnergy Resources, LLC ✓	DEP ID# 294943 ✓	Well (Farm) Name Beaver Pad 12 ✓	Well # 4H ✓	Serial # N/A ✓
Surface Landowner / Lessor DALE V & ELEANOR R STEINBACH		Angle & Course of Deviation (Drilling): S 41°54'16" E	Anticipated True Vertical Depth Feet (TVD): 5460' ✓	Anticipated Total Measured Depth Feet (TMD): UD 10708' Marcellus 10940'
Target Formation(s): Burkett, Marcellus ✓		Deepest Formation to be penetrated: Marcellus ✓	Number of laterals: 2 ✓	Total footage to be drilled all laterals: 17020' ✓
Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
1 – ROBERT A & SUSAN M AGUGLIA		40.784564050 -80.166210605		
2 – RICHARD O & DOREEN M ANDREWS		40.778774732 -80.162845025		
3 – JOSEPH W & CECILIA M BAUER		40.782859666 -80.179745704		
4 – JOSEPH D & LAUREL BELSTERLING		40.772160591 -80.167106785		
5 – WILLIAM & NANCY LEWIS		40.783694694 -80.178273535		
6 – RICHARD J & MARILOU M BIXLER		40.784823891 -80.165531092		
7 – SAMUEL FORD COOPER		40.783746079 -80.165545390		
8 – MARY H CRAIG & LINDA D FORMOLLI		40.782496990 -80.165452917		
9 – EVELYN F CRITES C/O CHRISTINE BLINN		40.779900679 -80.163994868		
10 – CHARLES F & CHERYL A DAVIDSON		40.778318172 -80.161405968		
11 – GEORGETTE DOUGLAS & MARGARET A DEVLIN ETAL		40.783807054 -80.166337249		
12 – ELIZABETH HELEN DRIPPS		40.785432925 -80.165316209		
13 – TIMOTHY & CAROL-LYNN DUBOVI		40.772216000 -80.176997000		
14 – WILLIAM HARRY & PEGGY ANN D'ZIO		40.778818952 -80.161096201		
15 – SANDRA L FREDERICK		40.772456935 -80.163561471		
16 – ALBERT CHARLES & JOAN J FUNK		40.781624570 -80.168143321		
17 – PAUL & DOROTHY GALLAGHER		40.772124589 -80.176614313		
18 – JOANN GASS		40.777864314 -80.161849511		
List Continues onto the following page				
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		
Marion Township •				
New Sewickley Township •				
North Sewickley Township •				
Franklin Township •				
Daugherty Township •				
Jackson Township •				
Zelienople Borough •				
Beaver County - N/A				
Butler County - N/A				

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APR 23 2014
DEP SWD
OIL & GAS

Coal related parties

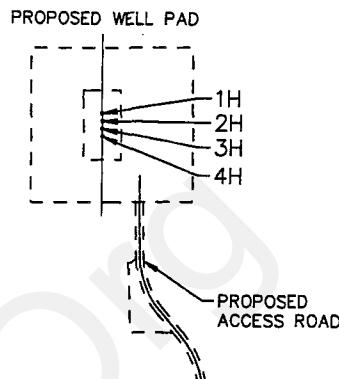
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Surface Owner/Water Purveyor w/Water Supply within 1000'/3000'		Latitude Longitude of Water Supply		
38 – JOHN L & ANDREA J PFLUGH C/O RACHEL MOYER		40.779752000 -80.161177000		
39 – DON RIDGLEY		40.781862277 -80.180349549		
40 – RANDY W ROGERS		40.785443278 -80.164648771		
41 – JOSEPH A SIMPSON		40.784182701 -80.167664199		
42 – PAUL J & DIANE C SIMS JR		40.782953913 -80.163097360		
43 – MARK C & CHERYL A SPENCER		40.774752407 -80.161398807		
44 – DENNIS J & MARTHA JANE SPRINGER		40.772959477 -80.175822055		
45 – DENNIS J & MARTHA JANE SPRINGER		40.775324487 -80.175985102		
46 – LEONARD HENRY & CYNTHIA RAE STANG ET AL		40.779893167 -80.159741473		
47 – WILMA STANG		40.779683157 -80.159917380		
48 – DALE V & ELEANOR R STEINBACH		40.773858054 -80.167854113		
49 – DALE V & ELEANOR R STEINBACH		40.774277978 -80.168585837		
50 – DALE V & ELEANOR R STEINBACH		40.775673000 -80.167777000		
51 – DALE V & ELEANOR R STEINBACH		40.774776000 -80.166366000		
52 – JAY D & MARY R STEINBACH		40.771989429 -80.168487112		
53 – KENNETH D & PEGGY ANN TEETS		40.772042890 -80.169253914		
54 – MARK J & ROSANNA D WEISSERT		40.774811815 -80.163068456		
55 – TAMMY L WHITE		40.783240663 -80.177707270		
56 – BARBARA R YOUNG		40.773136349 -80.168263417		
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Marion Township				
New Sewickley Township				
North Sewickley Township				
Franklin Township		Coal related parties		
Daugherty Township				
Jackson Township				
Zelienople Borough				
Beaver County				
Butler County				

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19 – DENNIS D & CAROL M HAMILTON		40.786300000 -80.174325000		
20 – MELANIE J HART		40.785709806 -80.170399582		
21 – KENNETH A & DOROTHY HICKMAN		40.780522686 -80.164996792		
22 – ROY & ROSE HOOVER		40.772684914 -80.172879702		
23 – ROY & ROSE HOOVER		40.773187630 -80.172585011		
24 – GLENN W & DEBORAH J KAISER		40.773024550 -80.166730714		
25 – RICHARD C KLINE		40.785184988 -80.176497489		
26 – RICHARD C KLINE		40.784350969 -80.176454012		
27 – ERIC CARL KRUT		40.777658998 -80.180605725		
28 – CARL P & CAROLE S LAUNER		40.779149830 -80.163478658		
29 – JOHN & MAUREEN LEMANKIEWICZ		40.771224530 -80.167058169		
30 – PATRICK LESLIE JR		40.782000295 -80.176630248		
31 – DALE V & ELEANOR R STEINBACH		40.776760723 -80.161598139		
32 – WILLIAM SCOTT & MARY JEAN MAIN		40.782904379 -80.178875511		
33 – DENISE A MCCLELLAND		40.785798942 -80.175844181		
34 – MARIAN L MCCULLOUGH C/O PAUL CURTIS		40.784195971 -80.171844781		
35 – ROBERT S & MARY B MCELROY		40.785740587 -80.173059989		
36 – CHRISTINE R PATTON		40.771853704 -80.175699035		
37 – JAMES PETRY & KEVIN BURR		40.779213706 -80.160142569		
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Daugherty Township				
Jackson Township				
Zelenople Borough				
Beaver County				
Butler County				

WELL LOCATION PLAT

PAGE 3 Plan View of Deviated Well Bore

Applicant / Well Operator Name: PENNENERGY RESOURCES, LLC	DEP ID #: 294943	Well (Farm) Name: BEAVER PAD 12	Well #: 4H
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WELL PAD DETAIL

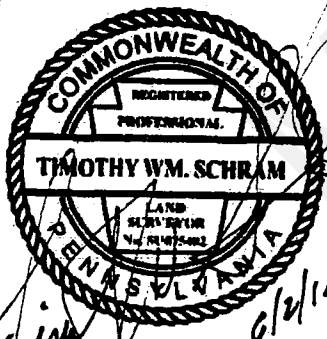
RECEIVED
JUN 03 2014

DEP SWDO
OIL & GAS

4h landing point
(MARCELLUS & UD)
LAT: N40°46'44.497"
LON: W80°10'01.186"

LEGEND

- | | |
|---|-------------------------------|
|  | Existing Edge of Road |
|  | Existing Property Lines |
|  | Existing Road Center Line |
|  | Existing Railroad Center Line |
|  | Existing County Boundary |
|  | Existing Municipal Boundary |
|  | Tract Boundary |
|  | Proposed Gas Well |
|  | Proposed Bottom Hole Location |
|  | Proposed Well Bore Path |



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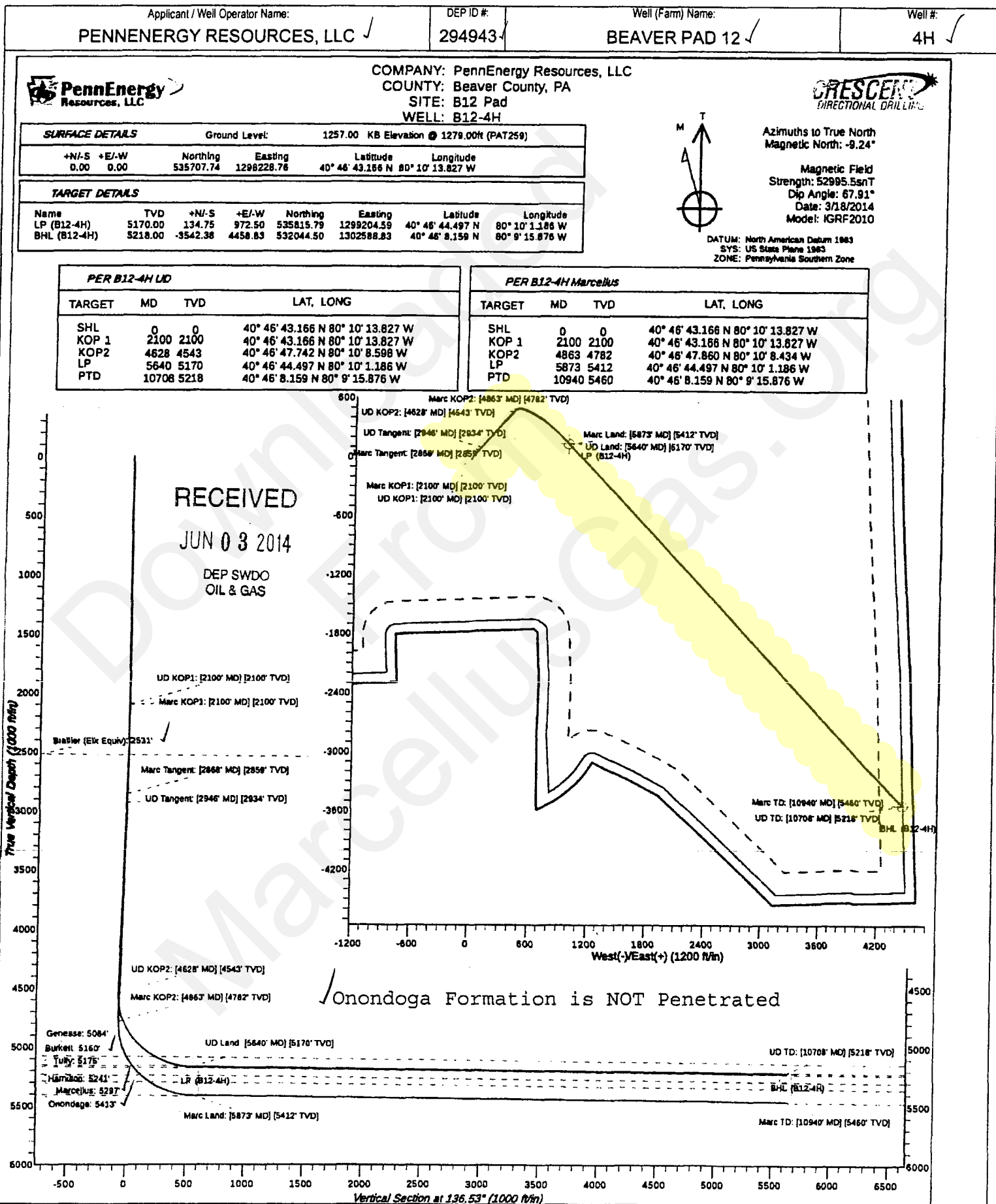
0' 1,000' 2,000'



SCALE IN FEET

WELL LOCATION PLAT

Page 4 Cross Section





COMPANY: PennEnergy Resources, LLC
 COUNTY: Beaver County, PA
 SITE: B12 Pad
 WELL: B12-4H



SURFACE DETAILS

Ground Level: 1257.00 KB Elevation @ 1279.00ft (PAT259)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	535707.74	1298228.76	40.778657	-80.170508

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
LP (B12-4H)	5170.00	134.75	972.50	535815.79	1299204.59	40.779027	-80.166996
BHL (B12-4H)	5218.00	-3542.38	4458.83	532044.50	1302588.83	40.768933	-80.154410



Azimuths to True North
 Magnetic North: -9.24°

Magnetic Field
 Strength: 52995.5nT
 Dip Angle: 67.91°
 Date: 3/18/2014
 Model: IGRF2010

DATUM: North American Datum 1983
 SYS: US State Plane 1983
 ZONE: Pennsylvania Southern Zone

PER B12-4H UD

TARGET	MD	TVD	LAT, LONG
SHL	0	0	40° 46' 43.166 N 80° 10' 13.827 W
KOP 1	2100	2100	40° 46' 43.166 N 80° 10' 13.827 W
KOP2	4628	4543	40° 46' 47.742 N 80° 10' 8.598 W
LP	5640	5170	40° 46' 44.497 N 80° 10' 1.186 W
PTD	10708	5218	40° 46' 8.159 N 80° 9' 15.876 W

PER B12-4H Marcellus

TARGET	MD	TVD	LAT, LONG
SHL	0	0	40° 46' 43.166 N 80° 10' 13.827 W
KOP 1	2100	2100	40° 46' 43.166 N 80° 10' 13.827 W
KOP2	4863	4782	40° 46' 47.860 N 80° 10' 8.434 W
LP	5873	5412	40° 46' 44.497 N 80° 10' 1.186 W
PTD	10940	5460	40° 46' 8.159 N 80° 9' 15.876 W

