



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

003-21712

JAN 27 2006

| | |
|--------------|---------------------|
| DEP USE ONLY | |
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---------------------------------------|---------------------|---|---------------------|------------------------------|
| Well Operator PC Exploration, Inc. | DEP ID# 52451 | Well API # (Permit / Reg) 37-003-21712 | Project Number | Acres 108 |
| Address 502 Keystone Drive | | Well Farm Name Margaret Hamilton | Well # 2 | Serial # |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum Borough |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min. quadrangle map New Kensington East | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on back (page 2)

| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal | |
|-----------------------------------|--|---|--|------------------------------------|--------------------------------------|-----------------------------------|----------|
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air | <input type="checkbox"/> Rotary - Mud | <input type="checkbox"/> Cable Tool | | | | |
| Date Drilling Started 12/30/05 | Date Drilling Completed 1/6/06 | Surface Elevation 1148 ft. | Total Depth - Driller 3741 ft. | Total Depth - Logger 3742 ft. | | | |
| Casing and Tubing | | Cement returned on surface casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | |
| | | Cement returned on coal protective casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | | | | |
| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
| 15 1/2" | 13 3/4" | 37 # | Thrd. | 36 | Sanded In | | 12/30/05 |
| 12 1/4" | 9 3/4" | 26 # | Thrd. | 622 | 260 Sacks cement standard | G shoe/Bsk 9 1/2" 622/578 | 1/3/06 |
| 8 3/4" | 7" | 20 # | Thrd. | 1995 | 460 Sacks cement standard | F shoe/Bsk 7" 1995/88 | 1/5/06 |
| 6 1/4" | 4 1/2" | 10.5# | Thrd. | 3672 | 165 Sacks cement standard | F shoe 4 1/2" 3672 | 1/7/06 |

COMPLETION REPORT

| Perforation Record | | | Stimulation Record | | | | | | |
|--------------------|--------------------------|------|--------------------|---------------------------|------------|--------|---------------------|--------|-------------------|
| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
| 1/17/06 | 3519 | 3524 | 1/17/06 | Sheffield | Water | 11340 | Sand | 23000 | 36.6 |
| 1/17/06 | 3203 | 3243 | 1/17/06 | Speechley | Water | 20748 | Sand | 42000 | 40.6 |
| 1/17/06 | 3066 | 3132 | 1/17/06 | Upper Speechley/ Stray | Water | 8862 | Sand | 18000 | 35.3 |

| | | | | |
|---------------------------|----------------|-------------------------------|-------------------|----------------|
| Natural Open Flow | 37,520 cu ft | Natural Rock Pressure | 24 Hours - | 3Day - |
| After Treatment Open Flow | 184,320 cu ft. | After Treatment Rock Pressure | 24 Hours-C390/490 | 3Day-C415/T515 |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| | | | |
|--|---|--|---|
| Name Titan Wireline Service | Name LK Drilling Corp., Inc. | Name Allegheny Wireline | Name BJ Services |
| Address P.O. Box 286 | Address 655 Philadelphia St | Address PO Box 129 | Address P.O. Box 144A |
| City - State - Zip Elderton, PA 15736 | City - State - Zip Indiana, PA 15701 | City - State - Zip Elderton, PA 15736 | City - State - Zip Fairmont City, PA 16224 |
| Phone 724-354-2629 | Phone 724-465-9130 | Phone 724-354-3090 | Phone 814-365-2003 |

003-21712

| LOG OF FORMATIONS | | | | | | Well API#: 37-003-21712 |
|------------------------|------------|---------------|---------------|---------------|-------------------------------|-------------------------|
| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
| Fill | 0 | 3 | | | | Drillers Log |
| Brown Sand | 3 | 12 | | | | |
| Red Shale | 12 | 21 | | | | |
| Gray Shale | 21 | 580 | | | | |
| Open | 580 | 585 | | | | |
| Gray Sand | 585 | 657 | | | Damp @ 655' | |
| Gray Sand/Shale | 657 | 3741 | | | 80-100gpm @ 1849' Brine | Drillers TD |
| 5 th Sand | 2285 | 2340 | | | | Wireline Log |
| 5 th Stray | 2347 | 2384 | 2350 | | | |
| Bayard | 2387 | 2408 | | | | |
| Upper Speechley | 3058 | 3080 | | | | |
| Speechley Stray | 3122 | 3134 | | | | |
| Speechley | 3200 | 3246 | | | | |
| Sheffield | 3514 | 3530 | | | | |
| Shale | 3530 | 3742 | | | | Log TD |

Please delete empty rows if necessary to make all of page 2 fit on one page.

| | | |
|---|---------------|-----------|
| Well Operator's Signature: | DEP USE ONLY | |
| | Reviewed by: | Date: |
| Title: <i>[Signature]</i> Assistant Vice President of Operations | Date: 1/26/06 | Comments: |

003-21868



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

| | | |
|----------------------------|------------------------|-----|
| DEP Application Tracking # | NC-664689 | G |
| USE ONLY | Page # 37-003-21868-00 | C |
| Project # | | RAL |

Denotes location of well on topo map.

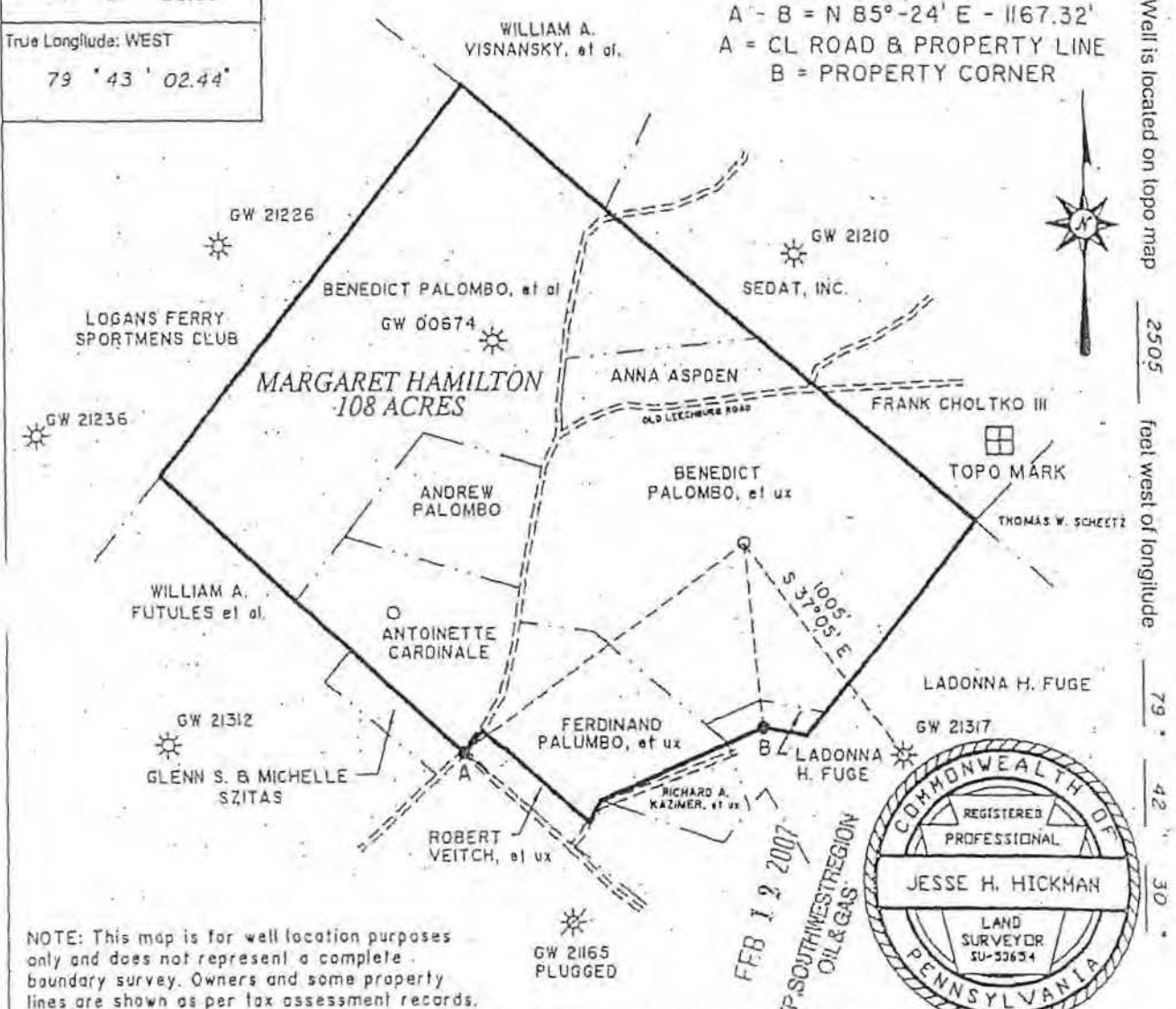
True Latitude: NORTH
40 ° 31 ' 20.33 "

True Longitude: WEST
79 ° 43 ' 02.44 "

Well is located on topo map 7050 feet south of latitude 40 ° 32 ' 30 "

LOC - A S 54°-06' W - 1350.42'
LOC - B S 05°-42' E - 701.70'
A - B = N 85°-24' E - 1167.32'
A = CL ROAD & PROPERTY LINE
B = PROPERTY CORNER

Well is located on topo map 2505 feet west of longitude 79 ° 42 ' 30 "



NOTE: This map is for well location purposes only and does not represent a complete boundary survey. Owners and some property lines are shown as per tax assessment records.

Surveyor: Jesse H. Hickman Phone # 412-549-0733 Exp. # BK 4 PG 43 Date: 2-10-05
Engineer: SU - 53654 MHAMILTON-A.DWG Scale 1" = 600 FEET Tract N/A Acreage 108



| | |
|---|--|
| Lin. & Long. Methods Method: ITPMP Accuracy: 0.20" A Datum: NAD 1927 | Elevation Methods Method: TOPO Accuracy: +/- 20' A Datum: NAD 27 Survey Date: 1-10-05 |
| Applicant/Well Operator Name P C EXPLORATION INC. | Well(Farm) Name MARGARET HAMILTON |
| Address 502 KEYSTONE DRIVE WARRENDALE, PA. 15086 | County - Code ALLEGHENY-02 |
| Surface Landowner BENEDICT PALUMBO, et ux. | Municipality PLUM BOROUGH |
| Surface Lessor N/A | USGS 7 1/2 Quadrangle Map Name NEW KENSINGTON EAST |
| Surface Owner or Water Purveyor with a Water Supply within 1,000 ft. | Approximate Course and Distance to Water Supply N 54-02 W 845' |
| Surface Lessor N/A | Owner, Lessee, or Operator of Workable Coal Seam NON COAL AREA |
| Surface Lessor N/A | Name of Coal Seam N/A |
| Surface Lessor N/A | Anticipated Total Depth 5000 |

GOB (Villal Coal Company) / Benton Mine / Upper Freeport Seam



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

003-21868

| DEP USE ONLY | |
|--------------|---------------------|
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---------------------------------------|---------------------|---|---------------------|----------------------|
| Well Operator PC Exploration, Inc. | DEP ID # 52451 | Well API # (Permit / Reg) 37-003-21868 | Project Number | Acres 108 |
| Address 502 Keystone Drive | | Well Form Name Margaret Hamilton | Well # 3 | Serial # |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min. quadrangle map New Kensington East | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on Back (page 2)

| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal | |
|----------------------------------|--|---|--|------------------------------------|--------------------------------------|-----------------------------------|----------|
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air <input type="checkbox"/> Rotary - Mud <input type="checkbox"/> Cable Tool | | | | | | |
| Date Drilling Started 12/3/07 | Date Drilling Completed 12/10/07 | Surface Elevation 1090 ft. | Total Depth - Driller 3676 ft. | Total Depth - Logger 3679 ft. | | | |
| Casing and Tubing | | Cement returned on surface casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cement returned on coal protective casing? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | | | | | |
| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
| 15 1/2" | 13 1/4" | 37 # | Thrd. | 77 | Sanded In | | 12/3/07 |
| 12 1/4" | 9 1/4" | 26 # | Thrd. | 573 | 230 Sacks cement standard | G shoe/Bsk 9 1/4" 573/88 | 12/4/07 |
| 8 1/2" | 7" | 20 # | Thrd. | 2051 | 365 Sacks cement standard | F shoe/Bsk 7" 2051/80 | 12/6/07 |
| 6 1/4" | 4 1/2" | 10.5# | Thrd. | 3626 | 115 Sacks cement standard | F shoe 4 1/2" 3626 | 12/10/07 |

COMPLETION REPORT

| Perforation Record | | | Stimulation Record | | | | | | |
|--------------------|--------------------------|------|--------------------|------------------|------------|--------|---------------------|--------|-------------------|
| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
| 12/14/07 | 3474 | 3482 | 12/14/07 | Sheffield | Water | 9652 | Sand | 17500 | 32.3 |
| 12/14/07 | 3350 | 3354 | 12/14/07 | Balltown | Water | 5926 | Sand | 12000 | 30.8 |
| 12/14/07 | 3160 | 3197 | 12/14/07 | Speeschley | Water | 16527 | Sand | 34000 | 37.2 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

JAN 07 2008
DEP, SOUTHWEST REGION
OIL & GAS

| | | | | |
|---------------------------|---------------|-------------------------------|--------------------|------------------|
| Natural Open Flow | 10,000 cu ft | Natural Rock Pressure | 24 Hours - | 30day - |
| After Treatment Open Flow | 118,000 cu ft | After Treatment Rock Pressure | 24 Hours-560C/440T | 30Day- 566C/678T |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| Name | Name | Name | Name |
|--|---|--|---|
| Titan Wireline Service | Phillips Drilling Company | Weatherford | BJ Services |
| Address P.O. Box 286 | Address 799 Old Rt 119N | Address PO Box 129 | Address P.O. Box 144A |
| City - State - Zip Elderton, PA 15736 | City - State - Zip Indiana, PA 15701 | City - State - Zip Elderton, PA 15736 | City - State - Zip Fairmont City, PA 16224 |
| Phone 724-354-2629 | Phone 724-465-9130 | Phone 724-354-3090 | Phone 814-365-2003 |

003-21868

| LOG OF FORMATIONS | | | | | | Well API#: 37-003-21868 | |
|------------------------|------------|---------------|---------------|---------------|-------------------------------|-------------------------|--------------|
| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data | |
| Brown Clay | 0 | 5 | | | | Drillers Log | |
| Brown Sandy Shale | 5 | 15 | | | | | |
| Gray Shale | 15 | 30 | | | | | |
| Red Rock | 30 | 55 | | | | | |
| Gray Sandy Shale | 55 | 60 | | | | | |
| Red Rock/Gray Shale | 60 | 105 | | | 3gpm @ 95' Fresh | P2 | |
| Gray Sandy Shale | 105 | 170 | | | | | |
| Red Rock | 170 | 195 | | | | | |
| Gray Sandstone | 195 | 310 | | | | | |
| Coal | 310 | 313 | | | | | |
| Gray Shale | 313 | 350 | | | | | |
| White Sandstone | 350 | 425 | | | | | |
| Gray Sandy Shale | 425 | 495 | | | | | |
| Subsidence(mine) | 495 | 537 | | | | | |
| Gray Sand/Shale | 537 | 1500 | | | | | |
| Coal/Red Rock | 1500 | 1515 | | | | | |
| Gray Sandy Shale | 1515 | 1630 | | | 5gpm @ 1570' | | |
| Gray Sandstone | 1630 | 1980 | | | 20gpm @ 1735' | | |
| Gray Sand/Shale | 1980 | 3676 | | | | | Drillers TD |
| 5 th Sand | 2247 | 2264 | | | | | Wireline Log |
| 5 th Stray | 2302 | 2337 | 2314 | | | | |
| Bayard | 2346 | 2364 | | | | | |
| Upper Speechley | 3024 | 3028 | | | | | |
| Speechley | 3158 | 3198 | | | | | |
| Balltown | 3352 | 3355 | | | | | |
| Sheffield | 3473 | 3484 | | | | | |
| Shale | 3484 | 3674 | | | | Log TD | |

Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:

[Signature] 1/3/08
 Title: Vice President of Operations Date: 1/3/08

DEP USE ONLY

Reviewed by: Date:

Comments:



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

003-21868

| DEP USE ONLY | |
|--------------|---------------------|
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | | |
|---------------------------------------|---------------------|---|-------------------------------------|----------------------|--------------|
| Well Operator PC Exploration, Inc. | | DEP ID# 52451 | Well Number 37-003-21868 | | Acres 108 |
| Address 502 Keystone Drive | | | Well Farm Name Margaret Hamilton | Well # 3 | Serial # |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum | |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min. quadrangle map New Kensington East | | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD

| | | | | | | |
|----------------------------------|--|---------------------------------------|--|------------------------------------|----------------------------------|-----------------------------------|
| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal |
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air | <input type="checkbox"/> Rotary - Mud | <input type="checkbox"/> Cable Tool | | | |
| Date Drilling Started 12/3/07 | Date Drilling Completed 12/10/07 | Surface Elevation 1090 ft. | Total Depth - Driller 3676 ft. | Total Depth - Logger 3679 ft. | | |

Casing and Tubing
Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No N/A

| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount In Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
|-----------|-----------|-------|---------------|---------------------|--------------------------------------|----------------------------------|----------|
| 15 1/2" | 13 1/4" | 37 # | Thrd. | 77 | Sanded In | | 12/3/07 |
| 12 1/2" | 9 5/8" | 26 # | Thrd. | 573 | 230 Sacks cement standard | G shoe/Bsk 9 5/8" 573/88 | 12/4/07 |
| 8 3/4" | 7" | 20 # | Thrd. | 2051 | 365 Sacks cement standard | F shoe/Bsk 7" 2051/80 | 12/6/07 |
| 6 1/2" | 4 1/2" | 10.5# | Thrd. | 3626 | 115 Sacks cement standard | F shoe 4 1/2" 3626 | 12/10/07 |

COMPLETION REPORT

| Perforation Record | | | Stimulation Record | | | | | | |
|--------------------|--------------------------|------|--------------------|------------------|------------|--------|---------------------|--------|-------------------|
| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
| 12/14/07 | 3474 | 3482 | 12/14/07 | Sheffield | Water | 9652 | Sand | 17500 | 32.3 |
| 12/14/07 | 3350 | 3354 | 12/14/07 | Balltown | Water | 5926 | Sand | 12000 | 30.8 |
| 12/14/07 | 3160 | 3197 | 12/14/07 | Speechley | Water | 16527 | Sand | 34000 | 37.2 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

| | | | |
|---------------------------|---------------|--------------------|-----------------|
| Natural Open Flow | 10,000 cu ft | 24 Hours - | 3Day - |
| After Treatment Open Flow | 118,000 cu ft | 24 Hours-560C/440T | 3Day- 566C/678T |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| Name | Name | Name | Name |
|--|---|--|---|
| Titon Wireline Service | Phillips Drilling Company | Weatherford | BJ Services |
| Address P.O. Box 286 | Address 799 Old Rt 119N | Address PO Box 129 | Address P.O. Box 144A |
| City - State - Zip Elderton, PA 15736 | City - State - Zip Indiana, PA 15701 | City - State - Zip Elderton, PA 15736 | City - State - Zip Fairmont City, PA 16224 |
| Phone 724-354-2629 | Phone 724-465-9130 | Phone 724-354-3690 | Phone 814-365-2003 |

~~003-21686~~

LOG OF FORMATIONS

Well API#: 37-003-21868

| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|------------------------|------------|---------------|---------------|---------------|-------------------------------|----------------|
| Brown Clay | 0 | 5 | | | | Drillers Log |
| Brown Sandy Shale | 5 | 15 | | | | |
| Gray Shale | 15 | 30 | | | | |
| Red Rock | 30 | 55 | | | | PS 2 |
| Gray Sandy Shale | 55 | 60 | | | | |
| Red Rock/Gray Shale | 60 | 105 | | | 3gpm @ 95' Fresh | |
| Gray Sandy Shale | 105 | 170 | | | | |
| Red Rock | 170 | 195 | | | | |
| Gray Sandstone | 195 | 310 | | | | |
| Coal | 310 | 313 | | | | |
| Gray Shale | 313 | 350 | | | | |
| White Sandstone | 350 | 425 | | | | |
| Gray Sandy Shale | 425 | 495 | | | | |
| Subsidence(mine) | 495 | 537 | | | | |
| Gray Sand/Shale | 537 | 1500 | | | | |
| Coal/Red Rock | 1500 | 1515 | | | | |
| Gray Sandy Shale | 1515 | 1630 | | | 5gpm @ 1570' | |
| Gray Sandstone | 1630 | 1980 | | | 20gpm @ 1735' | |
| Gray Sand/Shale | 1980 | 3676 | | | | Drillers TD |
| 5 th Sand | 2247 | 2264 | | | | Wireline Log |
| 5 th Stray | 2302 | 2337 | 2314 | | | |
| Bayard | 2346 | 2364 | | | | |
| Upper Speechley | 3024 | 3028 | | | | |
| Speechley | 3158 | 3198 | | | | |
| Balltown | 3352 | 3355 | | | | |
| Sheffield | 3473 | 3484 | | | | |
| Shale | 3484 | 3674 | | | | Log TD |

Please delete empty rows if necessary to make all of page 2 fit on one page.

| | | | |
|--|-----------------|------------------------------------|------------------|
| Well Operator's Signature | | DEP USE ONLY | |
| <i>[Signature]</i> | <i>1/3/08</i> | Reviewed by: <i>[Signature]</i> | Date: 3-17-18 |
| Title: Vice President of Operations | Date: 1/3/08 | Comments: | |

003-21963



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

| | | | |
|----------------------------|---------------------------|---|--------|
| DEP Application Tracking # | C-730386 | G | RS |
| USE ONLY | Project # 57-003-21963-00 | C | 7/5/08 |
| | | | RAL |

GEO COPY

| | |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Denotes location of well on topo map |
| True Latitude NORTH | |
| 40 ° 31 ' 11.54 " | |
| True Longitude WEST | |
| 79 ° 43 ' 11.32 " | |

Well is located on topo map 7940 feet south of latitude 40 ° 32 ' 30 "



Well is located on topo map



3190 feet west of longitude 79 ° 42 ' 30 "

DEP, SOUTHWEST REGION
OIL & GAS

NOTE: This map is for well location purposes only and does not represent a complete boundary survey. Owners and some property lines are shown as per tax assessment records.

Surveyor of Jesse H Hickman Phone # 412-549-0733 Dwg # BK 18 PG 4 Date 5-19-08 Scale 1" = 600 FEET Tract N/A Acreage 108
Engineer SU - 53654 MHAMILTON-D.DWG

| | | |
|--|--|--|
| Lot & Long Metadata Method ITPMP Accuracy 0.20" ft Datum NAD 1927 | Elevation Metadata Method TOPO Accuracy +/- 20' ft Datum NAD 27 | Survey Date 5-6-08 |
| Applicant / Well Operator Name P C EXPLORATION INC. | Well (Farm) Name MARGARET HAMILTON | Well # 4 |
| Address 502 KEYSTONE DRIVE WARRENDALE, PA. 15088 | County - Code ALLEGHENY-02 | Municipality 733 PLUM BOROUGH |
| Surface Landowner FERDINAND PALOMBO, et ux. | USGS 7 1/2 Quadrangle Map Name NEW KENSINGTON EAST 14036 | Top Section 7 |
| Surface Lessor N/A | Angle & Course of Deviator (Drilling) 0 | Surface Elevation 1162 |
| Surface Owner or Water Purveyor with a Water Supply within 1,000 ft | Approximate Course and Distance to Water Supply S 72-21 E 288' | Articulated Hole Depth 5000 |
| W-77 RICHARD KAZIMER | | Name of Coal Seam Owned, Leased, or Operated NO WORKABLE COAL SEAMS |

See Name Survey Act



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

003-21963

| | |
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| DEP USE ONLY | |
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---------------------------------------|-------------------------------------|--|---------------------|----------------------|
| Well Operator PC Exploration, Inc. | DEP ID# 52451 | Well API # (Permit / Reg) 37-003-21963 | Project Number | Acres 108 |
| Address 502 Keystone Drive | Well Farm Name Margaret Hamilton | Well # 4 | Serial # | |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min. quadrangle map New Kensington | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on back (page 2)

| | | | | | | |
|-----------------------------------|--|---------------------------------------|--|------------------------------------|----------------------------------|-----------------------------------|
| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal |
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air | <input type="checkbox"/> Rotary - Mud | <input type="checkbox"/> Cable Tool | | | |
| Date Drilling Started 11/13/08 | Date Drilling Completed 11/21/08 | Surface Elevation 1162 ft. | Total Depth - Driller 4005 ft. | Total Depth - Logger 4016 ft. | | |

Casing and Tubing

Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No N/A

| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
|-----------|-----------|-------|---------------|---------------------|--------------------------------------|----------------------------------|-------------------|
| 20" | | | | 14 | Sanded In | 14 | 11/13/08 |
| 15 1/2" | 13 3/4" | 37 # | Thrd. | 169 | 135 Sacks cement standard | F shoe/Bsk | 169/160 11/14/08 |
| 12 1/4" | 9 5/8" | 26 # | Thrd. | 673 | 245 Sacks cement standard | G shoe 9 5/8" | 673/160 11/18/08 |
| 8 3/4" | 7" | 20 # | Thrd. | 2150 | 435 Sacks cement standard | F shoe/Bsk 7" | 2150/160 11/20/08 |
| 6 1/2" | 4 1/2" | 10.5# | Thrd. | 3987 | 145 Sacks cement standard | F shoe 4 1/2" | 3987 11/24/08 |

COMPLETION REPORT

| Perforation Record | | | Stimulation Record | | | | | | |
|--------------------|--------------------------|------|--------------------|--------------------------|------------|--------|---------------------|--------|-------------------|
| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
| 12/6/08 | 3870 | 3882 | 12/6/08 | 2 nd Bradford | Water | 16025 | Sand | 28000 | 38.9 |
| 12/6/08 | 3556 | 3563 | 12/6/08 | Balltown | Water | 17809 | Sand | 28000 | 38.8 |
| 12/6/08 | 3242 | 3282 | 12/6/08 | Speechley | Water | 23995 | Sand | 40000 | 39.0 |

RECEIVED
DEC 22 2008
DEP, SOUTHWEST REGION
OIL & GAS

| | | | | |
|---------------------------|---------------|-------------------------------|--------------------|-----------------|
| Natural Open Flow | 5,000 cu ft | Natural Rock Pressure | 24 Hours - 0 | 3Day - 0 |
| After Treatment Open Flow | 213,120 cu ft | After Treatment Rock Pressure | 24 Hours- C385/T90 | 3Day- C387/T197 |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| | | | |
|--|--|---|---|
| Name Titan Wireline Service Address P.O. Box 286 City - State - Zip Elderton, PA 15736 Phone 724-354-2629 | Name Phillips Drilling Company Address 799 Old Rt 119 N City - State - Zip Indiana, PA 15701 Phone 724-465-9130 | Name Weatherford Address PO Box 129 City - State - Zip Elderton, PA 15736 Phone 724-354-3090 | Name Universal Well Service Address Rte. 436, Box 305 City - State - Zip Punxsutawney, PA 15767 Phone 814-938-2051 |
|--|--|---|---|

603-21963

| LOG OF FORMATIONS | | | | | | Well API#: 37-003-21963 |
|--------------------------|------------|---------------|---------------|---------------|-------------------------------|-------------------------|
| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
| Clay/Shale | 0 | 3 | | | | Drillers Log |
| Brown Shale | 3 | 13 | | | | |
| Gray Sandstone | 13 | 100 | | | | |
| Red Rock/Limestone | 100 | 370 | | | 5gpm @ 200' FW | |
| Gray White Sandstone | 370 | 604 | | | | |
| Coal | 604 | 608 | | | | |
| Shale | 608 | 650 | | | | |
| Sandstone | 650 | 700 | | | | |
| Coal | 700 | 708 | | | | |
| Sandstone | 708 | 770 | | | | |
| Shale/Limestone | 770 | 950 | | | | |
| Gray White Sandstone | 950 | 1040 | | | | |
| Coal | 1040 | 1043 | | | 5gpm @ 1040' | |
| Black Shale | 1043 | 1125 | | | 10gpm @ 1120' | |
| White Sandstone | 1125 | 1225 | | | | |
| Gray Sandstone | 1225 | 1830 | | | | |
| Shale | 1830 | 1880 | | | 50gpm @ 1880' | |
| Limestone | 1880 | 2000 | | | | |
| Red Rock/Limestone | 2000 | 2330 | | | | |
| Sandstone/Shale | 2330 | 2445 | | | | |
| Shale | 2445 | 2500 | | | | |
| Sandstone | 2500 | 4005 | | | | Drillers TD |
| 5 th Sand | 2326 | 2344 | | | | Wireline Log |
| 5 th Stray | 2382 | 2411 | | | | |
| Bayard | 2421 | 2448 | | | | |
| Speechley | 3240 | 3282 | | | | |
| Balltown | 3555 | 3566 | | | | |
| 1 st Bradford | 3776 | 3781 | | | | |
| 2 nd Bradford | 3868 | 3886 | | | | |
| Shale | 3886 | 4016 | | | | Log TD |

Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:

[Signature]
 Title Vice President of Operations

Date: 12/12/08

| | |
|---------------------|-------|
| DEP USE ONLY | |
| Reviewed by: | Date: |
| Comments: | |



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

003-21963

| | |
|--------------|---------------------|
| DEP USE ONLY | |
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---------------------------------------|-------------------------------------|--|---------------------|----------------------|
| Well Operator PC Exploration, Inc. | DEP ID# 52451 | Well API # (Permit / Reg) 37-003-21963 | Project Number | Acres 108 |
| Address 502 Keystone Drive | Well Form Name Margaret Hamilton | Well # 4 | Serial # | |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min. quadrangle map New Kensington | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD - Also complete Log of Formations on back (page 2)

| | | | | | | |
|-----------------------------------|--|---------------------------------------|--|------------------------------------|----------------------------------|-----------------------------------|
| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal |
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air | <input type="checkbox"/> Rotary - Mud | <input type="checkbox"/> Cable Tool | | | |
| Date Drilling Started 11/13/08 | Date Drilling Completed 11/21/08 | Surface Elevation 1162 ft. | Total Depth - Driller 4005 ft. | Total Depth - Logger 4016 ft. | | |

Casing and Tubing

Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No N/A

| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
|-----------|-----------|-------|---------------|---------------------|--------------------------------------|----------------------------------|----------|
| | 20" | | | 14 | Sanded In | 14 | 11/13/08 |
| 15 1/2" | 13 3/4" | 37 # | Thrd. | 169 | 135 Sacks cement standard | F shoe/Bsk 169/160 | 11/14/08 |
| 12 1/4" | 9 5/8" | 26 # | Thrd. | 673 | 245 Sacks cement standard | G shoe 9 5/8" 673/160 | 11/18/08 |
| 8 3/4" | 7" | 20 # | Thrd. | 2150 | 435 Sacks cement standard | F shoe/Bsk 7" 2150/160 | 11/20/08 |
| 6 1/4" | 4 1/2" | 10.5# | Thrd. | 3987 | 145 Sacks cement standard | F shoe 4 1/2" 3987 | 11/24/08 |

COMPLETION REPORT

Perforation Record

Stimulation Record

| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
|---------|--------------------------|------|---------|--------------------------|------------|--------|---------------------|--------|-------------------|
| 12/6/08 | 3870 | 3882 | 12/6/08 | 2 nd Bradford | Water | 16025 | Sand | 28000 | 38.9 |
| 12/6/08 | 3556 | 3563 | 12/6/08 | Balltown | Water | 17809 | Sand | 28000 | 38.8 |
| 12/6/08 | 3242 | 3282 | 12/6/08 | Speechley | Water | 23999 | Sand | 40000 | 39.0 |

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| | | | | |
|---------------------------|---------------|-------------------------------|---------------------|------------------|
| Natural Open Flow | 5,000 cu ft | Natural Rock Pressure | 24 Hours - 0 | 3Day - 0 |
| After Treatment Open Flow | 213,120 cu ft | After Treatment Rock Pressure | 24 Hours - C385/T90 | 3Day - C387/T197 |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| | | | |
|--|--|---|---|
| Name Titan Wireline Service Address P.O. Box 286 City - State - Zip Elderton, PA 15736 Phone 724-354-2629 | Name Phillips Drilling Company Address 799 Old Rt 119 N City - State - Zip Indiana, PA 15701 Phone 724-465-9130 | Name Weatherford Address PO Box 129 City - State - Zip Elderton, PA 15736 Phone 724-354-3090 | Name Universal Well Service Address Rte. 436, Box 305 City - State - Zip Punxsutawney, PA 15767 Phone 814-938-2051 |
|--|--|---|---|

003-21963

LOG OF FORMATIONS

Well API#: 37-003-21963

| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------|------------|---------------|---------------|---------------|-------------------------------|----------------|
| Gray/Shale | 0 | 3 | | | | Drillers Log |
| Brown Shale | 3 | 13 | | | | |
| Gray Sandstone | 13 | 100 | | | | |
| Red Rock/Limestone | 100 | 370 | | | 5gpm @ 200' FW | |
| Gray White Sandstone | 370 | 604 | | | | |
| Coal | 604 | 608 | | | | |
| Shale | 608 | 650 | | | | |
| Sandstone | 650 | 700 | | | | |
| Coal | 700 | 708 | | | | |
| Sandstone | 708 | 770 | | | | |
| Shale/Limestone | 770 | 950 | | | | |
| Gray White Sandstone | 950 | 1040 | | | | |
| Coal | 1040 | 1043 | | | 5gpm @ 1040' | |
| Black Shale | 1043 | 1125 | | | 10gpm @ 1120' | |
| White Sandstone | 1125 | 1225 | | | | |
| Gray Sandstone | 1225 | 1830 | | | | |
| Shale | 1830 | 1880 | | | | |
| Limestone | 1880 | 2000 | | | 50gpm @ 1880' | |
| Red Rock/Limestone | 2000 | 2330 | | | | |
| Sandstone/Shale | 2330 | 2445 | | | | |
| Shale | 2445 | 2500 | | | | |
| Sandstone | 2500 | 4005 | | | | Drillers TD |
| 5 th Sand | 2326 | 2344 | | | | Wireline Log |
| 5 th Stray | 2382 | 2411 | | | | |
| Bayard | 2421 | 2448 | | | | |
| Speechley | 3240 | 3282 | | | | |
| Balltown | 3555 | 3566 | | | | |
| 1 st Bradford | 3776 | 3781 | | | | |
| 2 nd Bradford | 3868 | 3886 | | | | |
| Shale | 3886 | 4016 | | | | Log TD |

Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:

[Signature]
 Title: Vice President of Operations

Date: 12/12/08

DEP USE ONLY

Reviewed by: *[Signature]*
 Comments:

Date: 1-19-10



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

003-21964 7-8-08

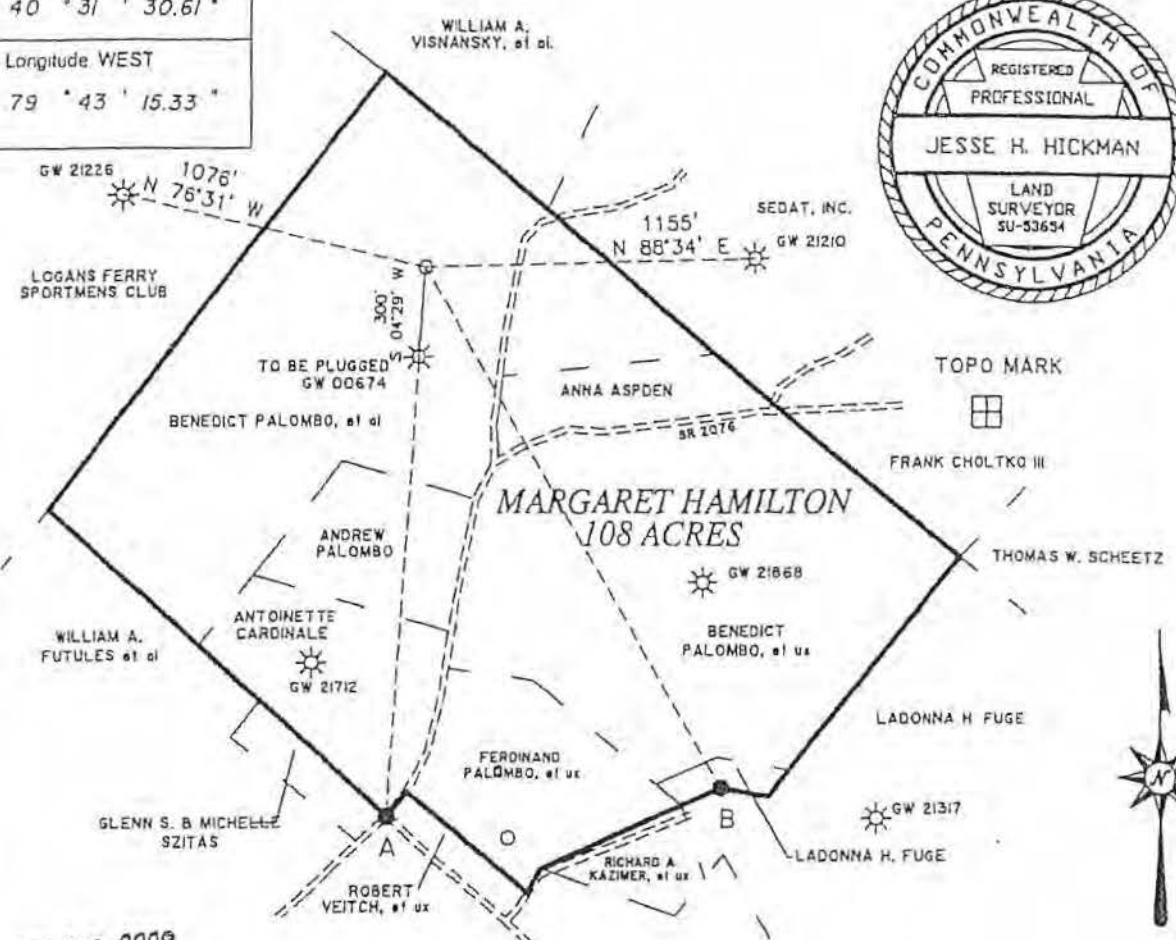
| | | | |
|----------------------------|--------------------------|---|-----|
| DEP Application Tracking # | NC-730995 | G | EAB |
| USE ONLY | Permit # 57-003-21964-00 | C | RAL |
| Project # | | | |

| | |
|--------------------------|--------------------------------------|
| <input type="checkbox"/> | Denotes location of well on topo map |
| True Latitude NORTH | |
| 40 ° 31 ' 30.61 " | |
| True Longitude WEST | |
| 79 ° 43 ' 15.33 " | |

Well is located on topo map 5010 feet south of latitude 40 ° 32 ' 30 "



Well is located on topo map 3500 feet west of longitude 79 ° 42 ' 30 "



JUN 16 2008

DEP, SOUTHWEST REGION
 OIL & GAS

NOTE: This map is for well location purposes only and does not represent a complete boundary survey. Owners and some property lines are shown as per tax assessment records.

LOC - A S 04°-16' W - 1955.97'
 LOC - B S 30°-16' E - 2034.24'
 A - B = N 85°-24' E - 1167.32'
 A = CL ROAD & PROPERTY LINE
 B = PROPERTY CORNER

Surveyor: Jesse H. Hickman Phone # 412-549-0733 Cwp # BK 18 PG 4 Date 5-19-08 Scale 1" = 600 FEET Tract N/A Acreage 108
 Engineer SU - 53654 MHAMILTON-C.DWG

| | |
|--|--|
| Lat & Long Metadata Method ITPMP Accuracy 0.20" ft Datum NAD 1927 | Elevation Metadata Method TOPO Accuracy +/- 20' ft Datum NAD 27 Survey Date 5-6-08 |
| Applicant / Well Operator Name P C EXPLORATION INC. | Well(Farm) Name MARGARET HAMILTON Well # 5 Prod # N/A |
| Address 602 KEYSTONE DRIVE WARRENDALE, PA. 15086 | County Code ALLEGHENY-02 Municipality 733 PLUM BOROUGH |
| Surface Landowner BENEDICT PALOMBO, et al | USGS 71/2 Quadrangle Map Name 1408 NEW KENSINGTON EAST Map Section 7 |
| Surface Lessor N/A | Angle & Course of Deviation (Degrees) 0 Surface Elevation 180 Anticipated Total Depth 5000 |
| Surface Owner or Water Purveyor with a Water Supply within 1,000 ft | Approximate Course and Distance to Water Supply |
| W-5B ANNA ASPDEN | S 25-45 E 625' |
| | Owner, Lessee, or Operator of Workable Coal Seam |
| | NO WORKABLE COAL SEAMS |
| | Name of Coal Seam Owned, Leased, or Operated |
| | GUB UPPER FREEPORT RANTON MINE |



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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM

003-21964

| DEP USE ONLY | |
|--------------|---------------------|
| Site Id | Primary Facility Id |
| Client Id | Sub-facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---|---------------------|--|---------------------|----------------------|
| Well Operator Phillips Exploration, Inc. | DEP ID# 52451 | Well API # (Permit / Reg) 37-003-21964 | Project Number | Acres 108 |
| Address 502 Keystone Drive | | Well Farm Name Margaret Hamilton | Well # 5 | Serial # |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min quadrangle map New Kensington East | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on back (page 2)

| | | | | | | |
|------------------------------------|--|---------------------------------------|--|------------------------------------|----------------------------------|-----------------------------------|
| Well Type | <input checked="" type="checkbox"/> Gas | <input type="checkbox"/> Oil | <input type="checkbox"/> Combination Oil & Gas | <input type="checkbox"/> Injection | <input type="checkbox"/> Storage | <input type="checkbox"/> Disposal |
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air | <input type="checkbox"/> Rotary - Mud | <input type="checkbox"/> Cable Tool | | | |
| Date Drilling Started 6-23-2009 | Date Drilling Completed 7-1-2009 | Surface Elevation 1180 ft. | Total Depth - Driller 4050 ft. | Total Depth - Logger 4052 ft. | | |

Casing and Tubing

Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No N/A

| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
|-----------|-----------|-------|---------------|---------------------|--------------------------------------|----------------------------------|-----------|
| 15 1/2" | 13 3/4" | 37 # | Thrd. | 22 | Sanded In | | 6-23-2009 |
| 12 1/4" | 9 3/4" | 26 # | Thrd. | 648 | 275 Sacks cement standard | G shoe/Bsk 9 3/4" 648/547 | 6-24-2009 |
| 8 3/4" | 7" | 20 # | Thrd. | 2194.7 | 510 Sacks cement standard | G shoe/Bsk 7" 2195/84 | 6-29-2009 |
| 6 1/4" | 4 1/2" | 10.5# | Thrd. | 4000.15 | 170 Sacks cement standard | F shoe 4 1/2" 4000 | 7-1-2009 |

COMPLETION REPORT

Perforation Record

Stimulation Record

| Date | Interval Perforated From | To | Date | Interval Treated | Fluid Type | Amount | Propping Agent Type | Amount | Average Injection |
|-----------|--------------------------|------|-----------|--------------------------|------------|--------|---------------------|--------|-------------------|
| 7-7-2009 | 3872 | 3884 | 7-10-2009 | 2 nd Bradford | Water | 9,802 | Sand | 12,000 | 30.0 |
| 7-10-2009 | 3554 | 3562 | 7-10-2009 | Balltown | Water | 15,158 | Sand | 24,000 | 36.9 |
| 7-10-2009 | 3237 | 3279 | 7-10-2009 | Speechley | Water | 26,452 | Sand | 42,000 | 36.5 |
| 7-10-2009 | 3164 | 3168 | 7-10-2009 | Upper Speechley | Water | 13,418 | Sand | 20,000 | 34.4 |
| | | | | | Water | | Sand | | |
| | | | | | Water | | Sand | | |

| | | | | |
|---------------------------|---------------|-------------------------------|---------------------|-----------------|
| Natural Open Flow | 65,160 cu ft | Natural Rock Pressure | 24 Hours - 0 | 3Day - 0 |
| After Treatment Open Flow | 103,000 cu ft | After Treatment Rock Pressure | 24 Hours - 530c/64f | 3Day - 520c/65f |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved

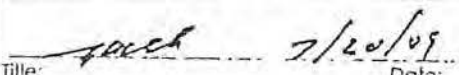
| Name | Name | Name | Name |
|---|---|--|--|
| Phillips Drilling Company | Phillips Drilling Company | Superior Well Services | Weatherford |
| Address 799 Old RT 119 N | Address 799 Old RT 119 N | Address PO Box 360469 | Address PO Box 129 |
| City - State - Zip Indiana, PA 15701 | City - State - Zip Indiana, PA 15701 | City - State - Zip Pittsburgh, PA 15251 | City - State - Zip Elderton, PA 15736 |
| Phone 724-465-9130 | Phone 724-465-9130 | Phone 724-248-1001 | Phone 724-354-3090 |

003-21964

| LOG OF FORMATIONS | | | | | | Well API#: 37-003-21964 |
|--------------------------|------------|---------------|---------------|---------------|-------------------------------|--------------------------------|
| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
| Clay | 0 | 10 | | | | Drillers log 152 |
| Sand shale | 10 | 180 | | | | |
| Sandstone | 180 | 215 | | | | |
| Shale | 215 | 226 | | | | |
| Coal | 226 | 230 | | | | |
| Shale, sand | 230 | 575 | | | 10 GPM @ 325' FW | |
| Sandstone | 575 | 705 | | | 30 GPM @ 540' FW | |
| Coal | 705 | 709 | | | | |
| Shale | 709 | 765 | | | | |
| Coal | 765 | 771 | | | | |
| Shale, sand | 771 | 1970 | | | 5 GPM @ 835' BW | |
| Sand | 1970 | 2095 | | | 5 GPM @ 975' BW | |
| Shale | 2095 | 4050 | | | 100+GPM@1900' BW | |
| 5 th sand | 2332 | 2344 | | | | |
| 5 th stray | 2390 | 2400 | 2390 | | | |
| Bayard | 2404 | 2412 | | | | |
| Warren | 2985 | 3000 | | | | |
| Upper speechley | 3160 | 3170 | 3165 | | | |
| Speechley | 3234 | 3280 | 3278 | | | |
| Balltown | 3550 | 3564 | 3558 | | | |
| 2 nd Bradford | 3872 | 3884 | | | | |
| Shale | 3884 | 4052 | | | | |
| | | | | | | Wireline TD |

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OIL & GAS

Please delete empty rows if necessary to make all of page 2 fit on one page.

| | | | |
|---|--|--------------|-------|
| Well Operator's Signature: | | DEP USE ONLY | |
|  Title: Vice President of Operations Date: 7/16/09 | | Reviewed by: | Date: |
| | | Comments: | |



REC'D
JUL 27 2009
DEP, SOUTHWEST REGION
OIL & GAS

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

003-21964

| DEP USE ONLY | |
|--------------|---------------------|
| Site Id | Primary Facility Id |
| Client Id | Sub-Facility Id |

WELL RECORD AND COMPLETION REPORT

| | | | | |
|---|---------------------|--|---------------------|----------------------|
| Well Operator Phillips Exploration, Inc. | DEP ID# 52451 | Well API # (Permit / Reg) 37-003-21964 | Project Number | Acres 108 |
| Address 502 Keystone Drive | | Well Form Name Margaret Hamilton | Well # 5 | Serial # |
| City Warrendale | State PA | Zip Code 15086 | County Allegheny | Municipality Plum |
| Phone 724-772-3500 | Fax 724-772-3505 | USGS 7.5 min quadrangle map New Kensington East | | |

Check all that apply: Original Well Record Original Completion Report Amended Well Record Amended Completion Report

WELL RECORD Also complete Log of Formations on back (page 2)

Well Type: Gas Oil Combination Oil & Gas Injection Storage Disposal

Drilling Method: Rotary - Air Rotary - Mud Cable Tool

Date Drilling Started: 6-23-2009 Date Drilling Completed: 7-1-2009 Surface Elevation: 1180 ft. Total Depth - Driller: 4050 ft. Total Depth - Logger: 4052 ft.

Casing and Tubing

Cement returned on surface casing? Yes No
Cement returned on coal protective casing? Yes No N/A

| Hole Size | Pipe Size | Wt. | Thread / Weld | Amount in Well (ft) | Material Behind Pipe Type and Amount | Packer / Hardware / Centralizers | Date Run |
|-----------|-----------|-------|---------------|---------------------|--------------------------------------|----------------------------------|-----------|
| 15 1/2" | 13 3/4" | 37 # | Thrd. | 22 | Sanded In | | 6-23-2009 |
| 12 1/4" | 9 3/4" | 26 # | Thrd. | 648 | 275 Sacks cement standard | G shoe/Bsk 9 3/4" 648/547 | 6-24-2009 |
| 8 3/4" | 7" | 20 # | Thrd. | 2194.7 | 510 Sacks cement standard | G shoe/Bsk 7" 2195/84 | 6-29-2009 |
| 6 1/4" | 4 1/2" | 10.5# | Thrd. | 4000.15 | 170 Sacks cement standard | F shoe 4 1/2" 4000 | 7-1-2009 |

COMPLETION REPORT

Perforation Record

Stimulation Record

| Date | Interval Perforated | | Date | Interval Treated | Fluid | | Propping Agent | | Average Injection |
|-----------|---------------------|------|-----------|--------------------------|-------|--------|----------------|--------|-------------------|
| | From | To | | | Type | Amount | Type | Amount | |
| 7-7-2009 | 3672 | 3884 | 7-10-2009 | 2 nd Bradford | Water | 9,802 | Sand | 12,000 | 30.0 |
| 7-10-2009 | 3554 | 3562 | 7-10-2009 | Balltown | Water | 15,158 | Sand | 24,000 | 36.9 |
| 7-10-2009 | 3237 | 3279 | 7-10-2009 | Speechley | Water | 26,452 | Sand | 42,000 | 36.5 |
| 7-10-2009 | 3164 | 3168 | 7-10-2009 | Upper Speechley | Water | 13,418 | Sand | 20,000 | 34.4 |
| | | | | | Water | | Sand | | |
| | | | | | Water | | Sand | | |

MAR 30 2010

DEP, SOUTHWEST REGION
OIL & GAS

| | | | | |
|---------------------------|---------------|-------------------------------|--------------------|-----------------|
| Natural Open Flow | 65,160 cu ft | Natural Rock Pressure | 24 Hours - 0 | 3Day - 0 |
| After Treatment Open Flow | 103,000 cu ft | After Treatment Rock Pressure | 24 Hours- 530c/64f | 30day- 520c/65f |

Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

| Name | Name | Name | Name |
|---|--|--|------|
| Phillips Drilling Company | Superior Well Services | Weatherlord | |
| Address 799 Old RT 119 N | Address PO Box 360469 | Address PO Box 129 | |
| City - State - Zip Indiana, PA 15701 | City - State - Zip Pittsburgh, PA 15251 | City - State - Zip Elderton, PA 15736 | |
| Phone 724-465-9130 | Phone 724-248-1001 | Phone 724-354-3090 | |

003-21964

LOG OF FORMATIONS

Well API#: 37-003-21964

| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------|------------|---------------|---------------|---------------|-------------------------------|----------------|
| Clay | 0 | 10 | | | | Drillers log |
| Sand shale | 10 | 180 | | | | |
| Sandstone | 180 | 215 | | | | |
| Shale | 215 | 226 | | | | |
| Coal | 226 | 230 | | | | |
| Shale, sand | 230 | 575 | | | 10 GPM @ 325' FW | |
| Sandstone | 575 | 705 | | | 30 GPM @ 540' FW | |
| Coal | 705 | 709 | | | | |
| Shale | 709 | 765 | | | | |
| Coal | 765 | 771 | | | | |
| Shale, sand | 771 | 1970 | | | 5 GPM @ 835' BW | |
| Sand | 1970 | 2095 | | | 5 GPM @ 975' BW | |
| Shale | 2095 | 4050 | | | 100+GPM@1900'BW | |
| 5 th sand | 2332 | 2344 | | | | Drillers TD |
| 5 th stray | 2390 | 2400 | 2390 | | | |
| Bayard | 2404 | 2412 | | | | |
| Warren | 2985 | 3000 | | | | |
| Upper speechley | 3160 | 3170 | 3165 | | | |
| Speechley | 3234 | 3280 | 3278 | | | Wireline log |
| Balltown | 3550 | 3564 | 3558 | | | |
| 2 nd Bradford | 3872 | 3884 | | | | |
| Shale | 3884 | 4052 | | | | |
| | | | | | | |

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 JUL 27 2009
 DEP. SOUTHWEST REGION
 OIL & GAS

Please delete empty rows if necessary to make all of page 2 fit on one page.

Well Operator's Signature:

[Signature] 7/20/09
 Title: Vice President of Operations
 Date: 7/18/09

DEP USE ONLY

Reviewed by: *[Signature]* Date: 3-2-10
 Comments:



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

GEO COPY 003-22187

| | | |
|--------------|-----------|---------|
| Auth. No.: | C-876833 | TF |
| Permit No.: | 003-22187 | 5-12-11 |
| Project No.: | | RP |

| | |
|--------------------------|---------------------------------------|
| <input type="checkbox"/> | Denotes location of well on topo map. |
| True Latitude: | NORTH |
| | 40° 30' 51.6" |
| True Longitude: | WEST |
| | 79° 42' 23.0" |

Well is located on topo map 9,983 feet south of latitude 40° 32' 30"

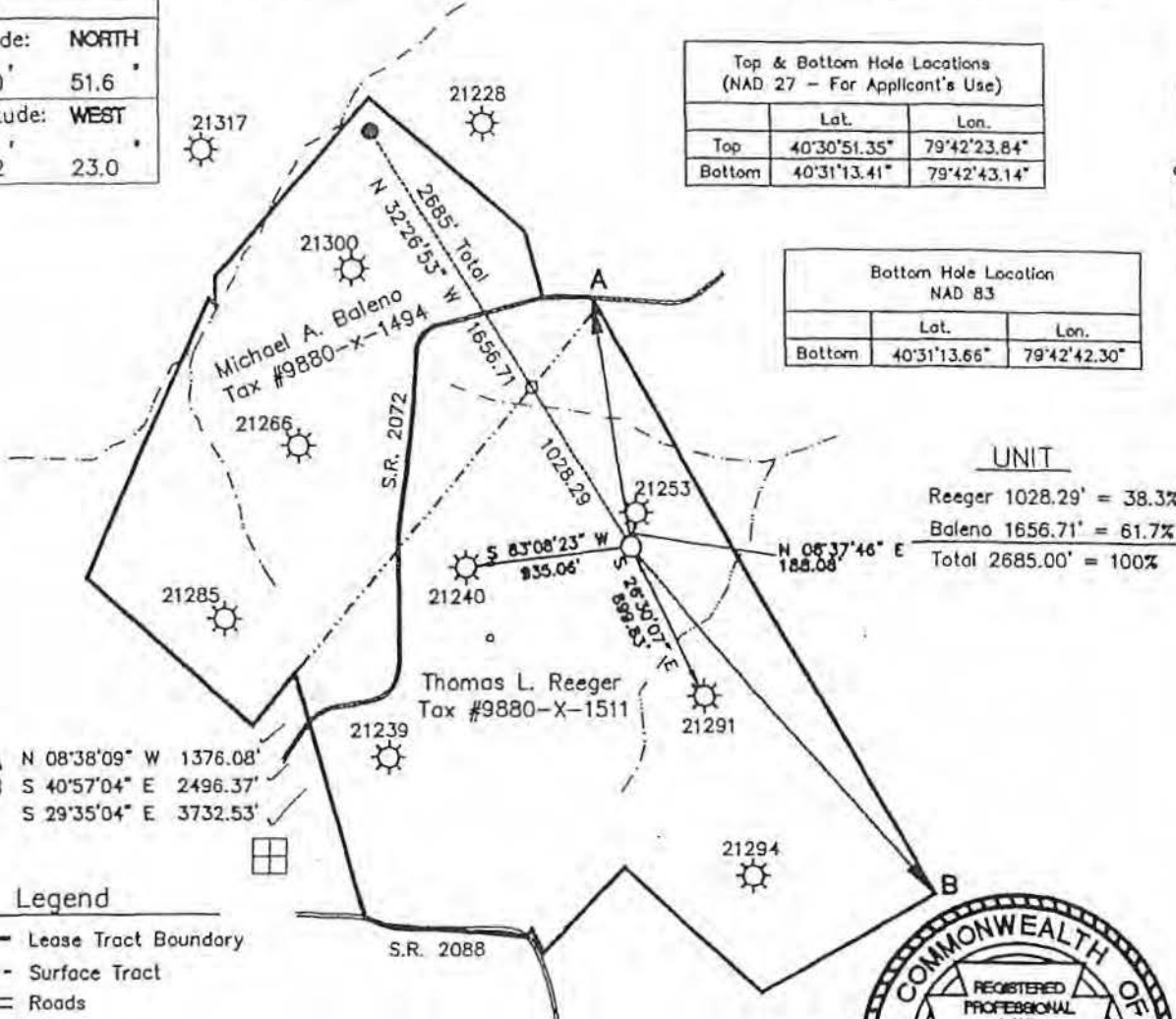
| | Lat. | Lon. |
|--------|--------------|--------------|
| Top | 40°30'51.35" | 79°42'23.84" |
| Bottom | 40°31'13.41" | 79°42'43.14" |

| | Lat. | Lon. |
|--------|--------------|--------------|
| Bottom | 40°31'13.66" | 79°42'42.30" |

UNIT
Reeger 1028.29' = 38.3%
Baleno 1656.71' = 61.7%
Total 2685.00' = 100%

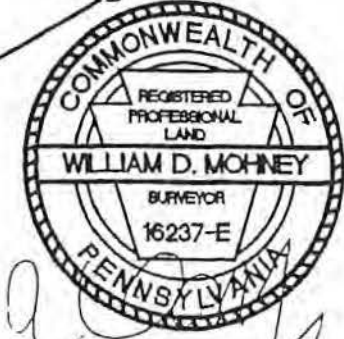
Loc - A N 08°38'09" W 1376.08'
Loc - B S 40°57'04" E 2496.37'
A - B S 29°35'04" E 3732.53'

- Legend**
- Lease Tract Boundary
 - Surface Tract
 - Roads
 - Streams/Water
 - Bottom Hole
 - Water Well or Spring
 - Proposed Well Location
 - Existing Well
 - Plugged Well



Well is located on topo map 11,107 feet west of longitude 79° 40' 00"

APR 21 2011
DEP, SOUTHWEST REGION
OIL & GAS



| | | | | | | | | | | | |
|--|---|---|---|-----------|---------|-------|----------------|--------|------------|----------------|-------|
| Surveyor or Engineer: W.D. Mohney & Associates (724) 543-1023 | Phone #: | DEP #: | 7674 | Day #: | bonsall | Date: | April 15, 2011 | Scale: | 1" = 1000' | Tract Acreage: | 268 ± |
| Lat & Long Metadata Method: GPS-Code Based Accuracy: 10 ± ft Datum: NAD 83 | Elevation Metadata Method: U.S.G.S. Plotted Accuracy: 30 ± ft Datum: NGVD29 | Survey Date: | Various Dates | | | | | | | | |
| Applicant / Well Operator Name: Penneco Oil Company | Well (Farm) Name: Hankey Unit | Well #: | 6H | Serial #: | PH-1670 | | | | | | |
| Address: 6608 US Route 22, Delmont, PA. 15626 | County: Allegheny | Municipality: Plum Borough | Well Type: New Oil Well | | | | | | | | |
| Surface Landowner / Lessor: Thomas L. Reeger | USGS 7 "Quadrangle Map Name: New Kensington East - 1408 | Map Section: 8 | Surface Elevation: 1180 ± | | | | | | | | |
| Target Formation(s): Speechley | Angle & Course of Deviation (Drilling): N 32°26'53" W - 2,685' | Anticipated Total Depth ft: TVD 3,270 | TMD 5,100 | | | | | | | | |
| Surface Owner or Water Purveyor: Thomas L. Reeger | Approximate Course and Distance to Water Supply: S 58° W - 950' | Owner, Lease, or Operator of Workable Coal Seam: Consolidation Coal Company Thomas L. Reeger | Name of Coal Seam Owner, Lease, or Operator: Upper Freeport All Others | | | | | | | | |

Gob - upper Freeport Coal Seam



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

003-22187

*Revised by
Ruth F
Gunn*

| DEP USE ONLY | |
|--------------|----------------|
| Site ID | Primary Fac ID |
| Client Id | Subfacility Id |

SURVEY

Well Record

WELL INFORMATION

| | | | | | | |
|---|---|-------------------------------|--|---|---|---------------------|
| Well Operator Panneco Oil Company | | DEP ID# 7674 | Well API # (Permit / Reg) 37-003-22187-00 | | Project Number | Acres 268 |
| Address 6608 Route 22 | | | Well Farm Name Hankey Unit | | Well # 6H | Serial # PH-1670 |
| City Delmont | State PA | Zip Code 15626 | County Allegheny | | Municipality Plum Borough | |
| Phone (724) 468-8232 | Fax (724) 468-8230 | Email penneco@penneco.com | | USGS 7.5 min. quadrangle map New Kensington East, PA | | |
| Check the appropriate Submission: <input checked="" type="checkbox"/> Original Well Record <input type="checkbox"/> Amended Well Record | | | | | | |
| Well Type | <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal | | | | | |
| Well Orientation | <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Deviated from Vertical (Side view and Deviated Survey must be attached) | | | | | |
| Drilling Method | <input checked="" type="checkbox"/> Rotary - Air <input type="checkbox"/> Rotary - Mud <input type="checkbox"/> Cable Tool | | | | | |
| Date Drilling Started 06/13/11 | Date Drilling Completed 08/02/11 | Surface Elevation 1180 ft. | Total Depth - Driller 4805 ft. | Total Depth - Logger 4805 ft. | Depth of Deepest Fresh Groundwater N/A | |

CEMENT

| | | |
|--|---|---|
| Cement returned on surface casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide top of cement and method used to determine: |
| Cement returned on coal protective casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide top of cement and method used to determine: <input type="checkbox"/> N/A |
| Cement returned on Intermediate casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide top of cement and method used to determine: <input type="checkbox"/> N/A |

| Casing String | Type of Cement | Amount of Cement | Gas Block (or equivalent) Used |
|-----------------|------------------------|------------------|--|
| Surface | CLA A, 3%cc 1/4# flake | 50 sks | |
| Conductor | CLA A, 3%cc 1/4# flake | 110 sks | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| Coal Protective | CLA A, 3%cc 1/4# flake | 565 sks | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| Intermediate | CLA A, 3%cc 1/4# flake | 900 sks | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| Production | UFL | 1131 sks | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |
| | | | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |

CASING AND TUBING

| Hole Size | Pipe Size | Wt. | Thread / Weld | Casing / Tubing Type | Amount in Well (ft.) | Packer / Hardware / Centralizers | | | Date Run |
|-----------|-----------|---------|---------------|----------------------|----------------------|----------------------------------|---------|-------|----------|
| | | | | | | Type | Size | Depth | |
| 28" | 26" | 77.26 # | N/A | Structural SRL | 33 | N/A | N/A | N/A | 06/13/11 |
| 22" | 20" | 81.30 # | N/A | R-3 MC-50 | 210 | guide shoe | 20" | 210 | 06/15/11 |
| 17 1/2" | 13 3/8" | 54.50 # | N/A | R-3 MC-50 | 714 | guide shoe | 13 3/8" | 714 | 06/17/11 |
| 12 3/8" | 9 5/8" | 40.00 # | N/A | R-3 MC-50 | 2490 | guide shoe | 9 5/8" | 2490 | 06/23/11 |
| 6 1/2" | 4 1/2" | 11.60 # | thread | R-3 N-80 | 4754 | float shoe | 4 1/2" | 4754 | 08/02/11 |

any casing is welded, provide the name of the welder:

Also complete the Log of Formations on back (page 2)

08/02/2011

DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS

003-22187


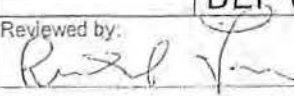
LOG OF FORMATIONS

Well API#: 37-003-22187-00

(If you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Type | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|------------------------|------------|---------------|---------------|---------------|-------------------------------|--|
| Let Down | 0 | 33 | | | | Driller's Log (Vertical Borehole) |
| Sand | 33 | 85 | | | | |
| Sand / Shale | 85 | 115 | | | | |
| Red Rock | 115 | 125 | | | | |
| Shale | 125 | 190 | | | | |
| Red Rock | 190 | 205 | | | | |
| Red Rock | 205 | 300 | | | | |
| Sand | 300 | 382 | | | | |
| Sandy Shale | 382 | 450 | | | | |
| Sandy Shale / Sand | 450 | 642 | | | | |
| Coal | 642 | 647 | | | | |
| Sand | 647 | 712 | | | | |
| Sandy Shale | 712 | 1044 | | | | |
| Sand | 1044 | 1134 | | | | |
| Sandy Shale | 1134 | 1270 | | | | |
| Sand Stone | 1270 | 1300 | | | | |
| Sand / Shale | 1300 | 1370 | | | | |
| Sand / Shale | 1370 | 1430 | | | | |
| Sand | 1430 | 1494 | | | | |
| Sand | 1494 | 1550 | | | | |
| Sandy Shale | 1550 | 2184 | | | 1" brine @ 1874 | |
| Red Rock | 2184 | 2214 | | | 1" brine @ 1914 | |
| Sand | 2214 | 2274 | | | | |
| Red Rock | 2274 | 2610 | | | | |
| Sand | 2610 | 2700 | | | | |
| Sand / Shale | 2700 | 2805 | | | | |
| Sand / Shale | 2805 | 2820 | | | | |
| Shale | 2820 | 2950 | | | | |
| Sand / Shale | 2950 | 3240 | | | | |
| Shale | 3240 | 3300 | | | | |
| Cement | 2546 | 2608 | | | | Driller's Log (Horizontal Borehole) |
| Sand & Shale | 2608 | 2705 | | | | |
| Shale | 2705 | 2831 | | | | |
| Sand & Shale | 2831 | 3210 | | | | |
| Sand | 3210 | 3270 | | | | |
| Shale | 3270 | 3420 | | | | |
| Sand | 3420 | 3520 | | | | |
| Shale | 3520 | 3870 | | | | |
| Sand | 3870 | 4805 | | | | |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | | |
|--|--|------------------|
| Well Operator's Signature  | DER USE ONLY | |
| | Reviewed by:  | Date: 2-14-12 |
| Title: Vice President | Date: 8/31/11 | Comments: |

003-22187



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

| | |
|--------------|----------------|
| DEP USE ONLY | |
| Site ID | Primary Fac ID |
| Client | Subfacility Id |

Completion Report

| Well Information | | | | | | | |
|---|-----------------------|-------------------|--|--|---|---------------------|--|
| If you are submitting this Completion Report attached to the Well Record, you only need to enter the well API # in this section. | | | | | | | |
| Well Operator Penneco Oil Company | | DEP ID# 7674 | Well API # (Permit / Reg) 37-003-22187-00 | | Project Number | Acres 268 | |
| Address 6608 Route 22 | | | Well Farm Name Hankey Unit | | Well # 6H | Serial # PH-1670 | |
| City Delmont | State PA | Zip Code 15626 | County Allegheny | | Municipality Plum Borough | | |
| Phone (724) 468-8232 | Fax (724) 468-8230 | | Email penneco@penneco.com | | USGS 7.5 min. quadrangle map New Kensington East, PA | | |
| Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report | | | | | | | |

| STIMULATION BASE FLUID | | |
|--|------------------------------|------------------|
| List Water Management Plan Approved Water Source(s) that were used | Water Management Plan ID No. | Volume (Gallons) |
| 1. Not Applicable | | |
| 2. | | |
| 3. | | |
| 4. | | |
| 5. | | |
| 6. | | |
| Recycled Water Used | | |
| Other Base Fluid(s)/Components Used | | |
| 1. | | |
| 2. | | |
| Total Base Fluid(s)/Components Used | | |

| PERFORATION RECORD | | | | | |
|--------------------|------------------|-----------------------|---------------------|--|-----------------|
| Stage No. | Perforation Date | Stage Perforated From | Stage Perforated To | Perf. Orientation (Vertical, Horizontal, Radial) | Formation |
| 1 | 08/16/11 | 4670 | 4730 | Radial | Speechley |
| 2 | 08/18/11 | 4570 | 4630 | Radial | Speechley |
| 3 | 08/18/11 | 4470 | 4530 | Radial | Speechley |
| 4 | 08/18/11 | 4370 | 4430 | Radial | Speechley |
| 5 | 08/18/11 | 4270 | 4330 | Radial | Speechley |
| 6 | 08/18/11 | 4170 | 4230 | Radial | Speechley |
| 7 | 08/18/11 | 4070 | 4130 | Radial | Speechley |
| 8 | 08/18/11 | 3970 | 4030 | Radial | Speechley |
| 9 | 08/18/11 | 3870 | 3930 | Radial | Speechley |
| 10 | 08/18/11 | 3430 | 3520 | Radial | Speechley |
| 11 | 08/18/11 | 3216 | 3266 | Radial | Speechley Stray |

SEP 13 2011
DEP, SOUTHWEST REGION
DLR/BJS

STIMULATION FLUID ADDITIVES

a: Trade secret or confidential proprietary information should be clearly identified as such and should be submitted on a separate sheet attached to this report.

| Descriptive Additive Type | Chemical Component(s) listed on Material Safety Data Sheet of the Additive | CAS No. of Chemical Component | Chemical Component % By Volume in Additive | Chemical Component % By Volume used in Each Stage | | | | | | | | | | | |
|---------------------------|--|-------------------------------|--|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|-------|
| | | | | Stage No. 1 | Stage No. 2 | Stage No. 3 | Stage No. 4 | Stage No. 5 | Stage No. 6 | Stage No. 7 | Stage No. 8 | Stage No. 9 | Stage No. 10 | Stage No. 11 | |
| ALPHA 3385 | Solvent Naptha (Petroleum), petroleum aromatic | 64742-94-5 | 65 - 100% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.08% | 0.10% | 0.08% |
| ALPHA 3385 | Poly(oxy-1,2-ethanediyl), a(nonylphenyl)-w-hydroxy- phosphate | 51811-79-1 | 30 - 60% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.05% | 0.05% | 0.05% | 0.05% | 0.06% | 0.05% |
| ALPHA 3385 | Naphthalene | 91-20-3 | 3 - 7% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.01% | 0.00% |
| CLA CHEK LP | Ethylene Glycol | 107-21-1 | 30 - 60% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% | 0.03% |
| Flomax 50 | Isopropanol | 67-63-0 | 1 - 15% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| Flomax 50 | Citrus Terpenes | 94266-47-4 | 1 - 15% | 0.01% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.60% | 0.00% | 0.00% | 0.00% | 0.00% |
| Hydrochloric Acid | Hydrochloric Acid | 7647-01-0 | 31 - 33% | 0.25% | 0.25% | 0.25% | 0.25% | 0.25% | 0.25% | 0.26% | 0.26% | 0.26% | 0.26% | 0.18% | 0.26% |
| IRON STA II C | Ethylene Glycol | 107-21-1 | 10 - 30% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| NE-90 | Methanol | 67-56-1 | 30 - 60% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% | 0.04% |
| NE-90 | Isopropanol | 67-63-0 | 5.0 - 10.0% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| NE-90 | Heavy Aromatic Naptha | 64742-94-5 | 1.0 - 5.0% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| NE-90 | Polyethylene Glycol | 25322-68-3 | 1.0 - 5.0% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| NE-90 | EO-C7-9-iso, C8-rich alcohols | 78330-19-5 | 1.0 - 5.0% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| NE-90 | EO-C9-11-iso, C10-rich alcohols | 78330-20-8 | 1.0 - 5.0% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| NE-90 | 2-Ethylhexanol | 104-76-7 | 5.0 - 10.0% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% | 0.01% |
| NE-90 | Naphthalene | 91-20-3 | 0.1 - 1.0% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Sand | Crystalline Silica in the form of Quartz | 14808-60-7 | 67 - 99.9% | 6.48% | 7.66% | 7.10% | 7.12% | 7.12% | 7.15% | 7.17% | 7.18% | 7.37% | 7.70% | 7.31% | |
| IPER SURF | Methanol | 67-56-1 | 30 - 60% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% | 0.02% |
| igel 5F | Guar Gum | N/A | >95% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.09% | 0.10% | 0.10% | 0.10% |

Please insert additional copies of this page if additional rows/stages are needed.

Well API# 37-003-22187-00

STIMULATION INFORMATION (WELL)

| | | | |
|--|---|-------------------------------------|-----------------------------|
| Open Flow Production: Still Testing | 24 Hr. Open Flow Production: Still Testing | 24 Hr. Shut-In Pressure: 660 PSI | Flow Back Date: 08/18/11 |
|--|---|-------------------------------------|-----------------------------|

STIMULATION INFORMATION (STAGE)


Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

| | | |
|------------------------------------|------------------------------------|--|
| Stage No.: 1 | Stimulation Date: 08/18/11 | Pump Rate: 41.0 BPM |
| Pressure (psi): 3500 | Shut-in Surface Pressure: 2300 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 27,500 # | Propping Agent Size: 20/40 |
| Stage No.: 2 | Stimulation Date: 08/18/11 | Pump Rate: 44.0 BPM |
| Pressure (psi): 3390 | Shut-in Surface Pressure: 2440 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 32,500 # | Propping Agent Size: 20/40 |
| Stage No.: 3 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3350 | Shut-in Surface Pressure: 2070 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 4 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3600 | Shut-in Surface Pressure: 2260 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 5 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3600 | Shut-in Surface Pressure: 2300 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 6 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3600 | Shut-in Surface Pressure: 2250 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 | Propping Agent Size: 20/40 |
| Stage No.: 7 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3500 | Shut-in Surface Pressure: 2430 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 8 | Stimulation Date: 08/18/11 | Pump Rate: 41.0 BPM |
| Pressure (psi): 3300 | Shut-in Surface Pressure: 2280 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 9 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 3500 | Shut-in Surface Pressure: 2270 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |
| Stage No.: 10 | Stimulation Date: 08/18/11 | Pump Rate: 48.0 BPM |
| Pressure (psi): 3200 | Shut-in Surface Pressure: 2300 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 45,000 # | Propping Agent Size: 20/40 |
| Stage No.: 11 | Stimulation Date: 08/18/11 | Pump Rate: 40.0 BPM |
| Pressure (psi): 80 | Shut-in Surface Pressure: 1920 | 5 Minute Shut-in Surface Pressure: Not Measured |
| Propping Agent Type: White Sand | Propping Agent Amount: 30,000 # | Propping Agent Size: 20/40 |

SEP 01 2011
DEPT. OF REVENUE
OIL & GAS

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

003-22127

| | | |
|---|--|---|
| Name U.S. Energy | Name Universal Well Services | Name Geosearch Logging Inc. |
| Address P.O. Box 237 | Address 114 Universal Drive | Address 101 Bradford Rd # 212 |
| City - State - Zip Rural Valley, PA 16249 | City - State - Zip Punxsutawney, PA 15767 | City - State - Zip Wexford, PA 15090-6909 |
| Phone (724)783-7624 | Phone (814) 938-2051 | Phone (412) 719-2158 |
| <p><i>I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.</i></p> | | |
| Well Operator's Signature | | DEP USE ONLY |
|  Title: Vice President | Date: 8/31/11 | Reviewed by:  Date: 2-11-11 Comments: |

003-22187

Hankey Unit #6H Plugback Procedure

In order to establish local depth control for the Speechley sand, Hankey Unit #6H was drilled vertically to a depth of 3390' and plugged back to accommodate DEP regulations as well as requirements for directional kick-off equipment. This pilot wellbore was drilled according to the sequence of a typical vertical well with 26" casing to 33', 20" casing to 210', 13 3/8" casing to 714', and 9 5/8" casing to 2490'. 7 7/8" air-rotary drilling was utilized to complete the pilot boring from 2490' to 3390'. Once logged, the pilot wellbore was plugged back to a depth of 2608' using 305 sks of Class A cement. The wet cement was pumped through drill steel lowered to the bottom of the pilot well bore, and then pulled back to the desired plugback depth of 2546' and washed off. The cement was allowed to harden for 43 hours. During this time, a cement bond log (CBL) was run to verify that cement had adequately filled the annulus for the 9 5/8" casing and tagged the top of the cement plug at 2546'. Following the CBL, Phoenix Technology Services and U.S. Energy ran in with directional drilling equipment to kick out of the vertical wellbore. Using the tag method before drill string, the top of the cement plug was confirmed at 2546'. Given a minimum requirement of 30' of hard cement to ensure proper functionality of the directional tools, a plan was established to kick off no higher than 2576'.

FEB 1 2007

DEP. SOUTHWEST REGION
OIL & GAS

SEP 9 2011

DEP. SOUTHWEST REGION
OIL & GAS

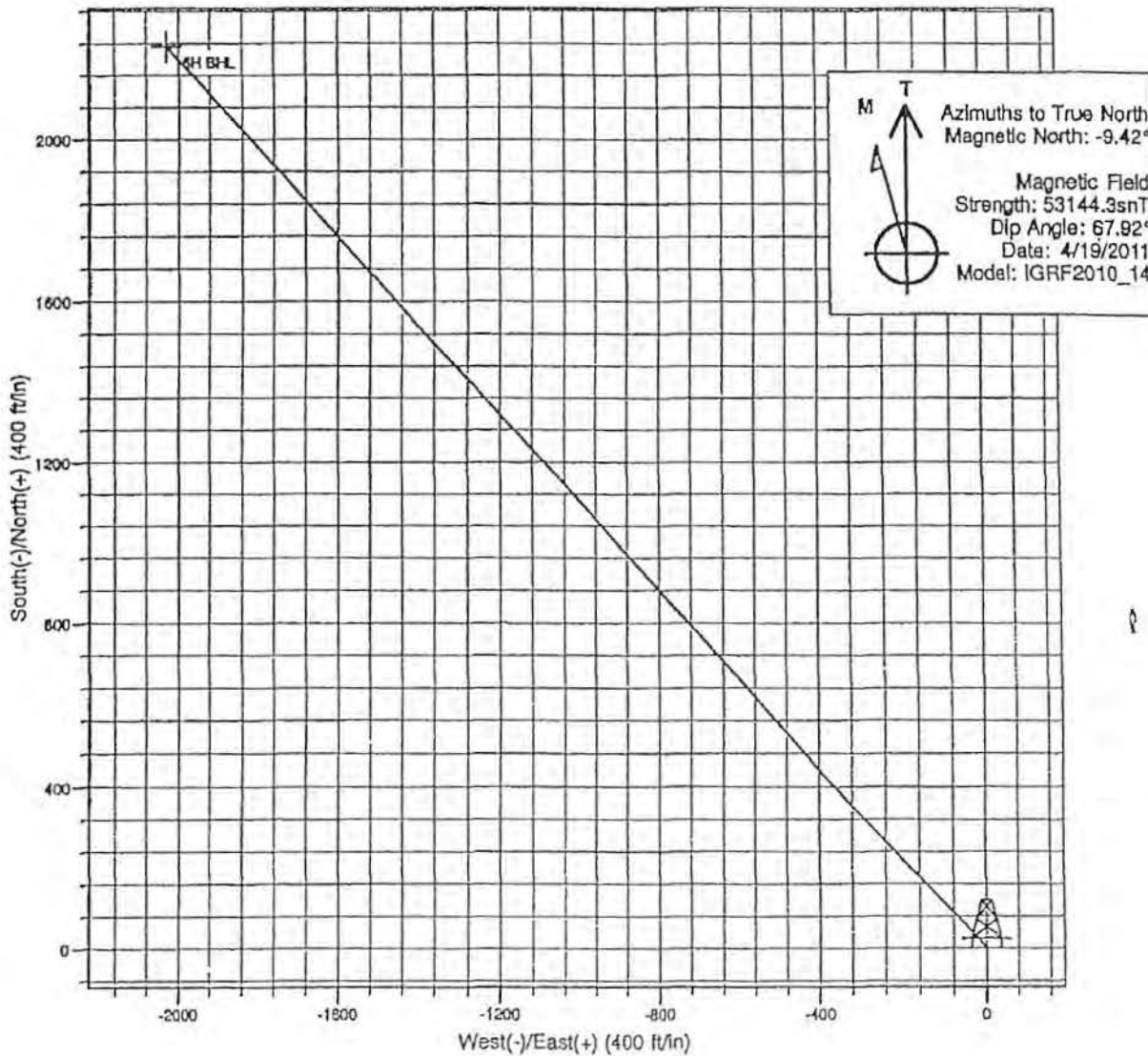
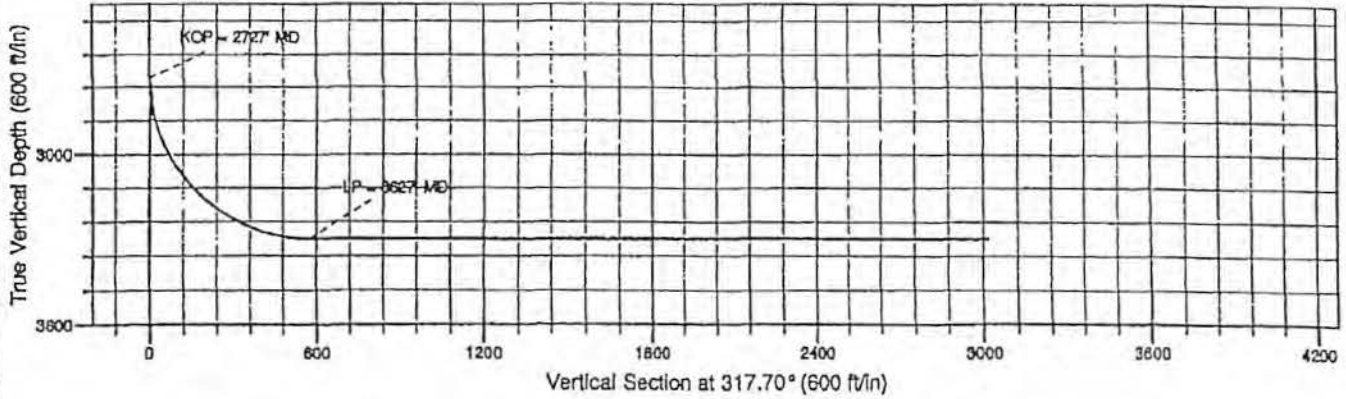
003 - 22187



PHOENIX
TECHNOLOGY SERVICES USA INC.

Penneco Oil Company

Project: Allegheny County, PA
Site: Plum Borough #6H
Well: Hankey Unit 6H
Wellbore: Main Wellbore
Design: Plan 1



MAY 05 2011

DEP, SOUTHWEST REGION
OIL & GAS

GEO COPY

003-22200

5500-PM-0G0002 Rev. 9/2008

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

| | | | |
|------|-----------|-----------|-------|
| DEP | Auth ID | NC-90104 | TF |
| USE | Permit # | 003-22200 | 12+11 |
| ONLY | Project # | | RA |

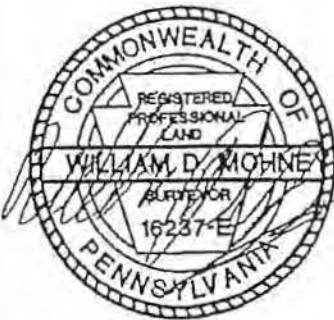


Denotes location of well on topo map.

True Latitude: NORTH
40° 31' 31.75"

True Longitude: WEST
79° 42' 43.98"

Well is located on topo map 5,894 feet south of latitude 40° 32' 30"



UNIT BREAKDOWN

Sedal Inc. 1331.84' = 76.4%
Kenneth Howard et al 411.01' = 23.6%
Total Horizontal 1742.85' = 100%

Loc - A S 87°42'00" W 1762.08'
Loc - B N 32°48'56" W 1200.45'
A - B N 45°47'53" E 1548.50'

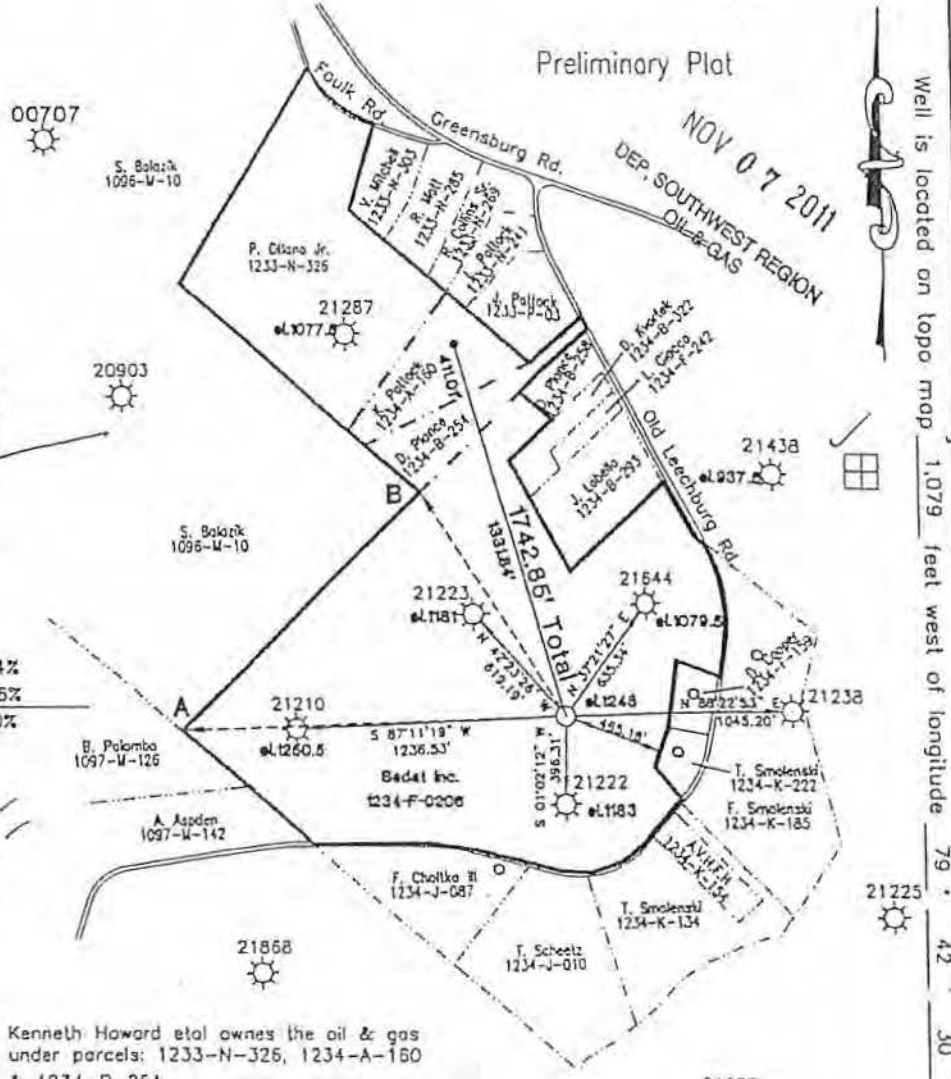
Legend

- Lease Tract Boundary
- - - Surface Tract
- == Roads
- Streams/Water
- Bottom Hole Location
- Proposed Well Location
- ☀ Existing Well
- ☀ Plugged Well
- Water Well +-

Kenneth Howard et al owns the oil & gas under parcels: 1233-N-326, 1234-A-160 & 1234-B-254.

Surveyor or Engineer: W.D. Mohney & Associates (724) 543-1023 sardis rd lidar October 19, 2011 Scale: 1" = 800' Tract Acreage: 101 ±

| | | | | | |
|---|--|--|--|---|--|
| Lat & Long Method | | Elevation Method | | Survey Date | |
| GPS-Code Based Accuracy 10 ± ft. Datum NAD 83 | | U.S.G.S. Plotted Accuracy 30 ± ft. Datum NGVD29 | | Various Dates | |
| Applicant / Well Operator Name | | Well (Farm) Name | | Well / Serial # | |
| Penneco Oil Company | | SEDAT | | 5H - PS-1753 | |
| Address | | County | | Municipality | |
| 6608 US Route 22, Delmont, PA. 15626 | | Allegheny | | Plum Borough | |
| Surface Landowner / Lessor | | USGS 7 1/2" Quadrangle Map Name | | Map Section | |
| Sedal Inc. | | New Kensington East, PA. - 1408 | | 7 | |
| Target Formation(s) | | Angle & Course of Deviation (Drilling) | | Anticipated Total Depth ft. | |
| Speechley | | NONE | | TWD 3340' TWD 4845' | |
| Surface Owner or Water Purveyor | | Owner, Lessee, or Operator of Workable Coal Seam | | Name of Coal Seam | |
| Approximate Course and Distance to Water Supply | | NON-COAL AREA | | Owner, Leased, or Operated | |
| Frank I. & Marcia M. Smolenski | | NON-COAL AREA | | | |
| Theodore & Virginia Smolenski | | | | | |
| Frank Chalko, III | | | | | |
| Daniel Cooper | | | | GOB - Renton Mine, Upper Freeport Coal Seam | |



Well is located on topo map 1,079 feet west of longitude 79° 42' 30"

NOV 07 2011
DEP. SOUTHWEST REGION
OIL & GAS

003-22200

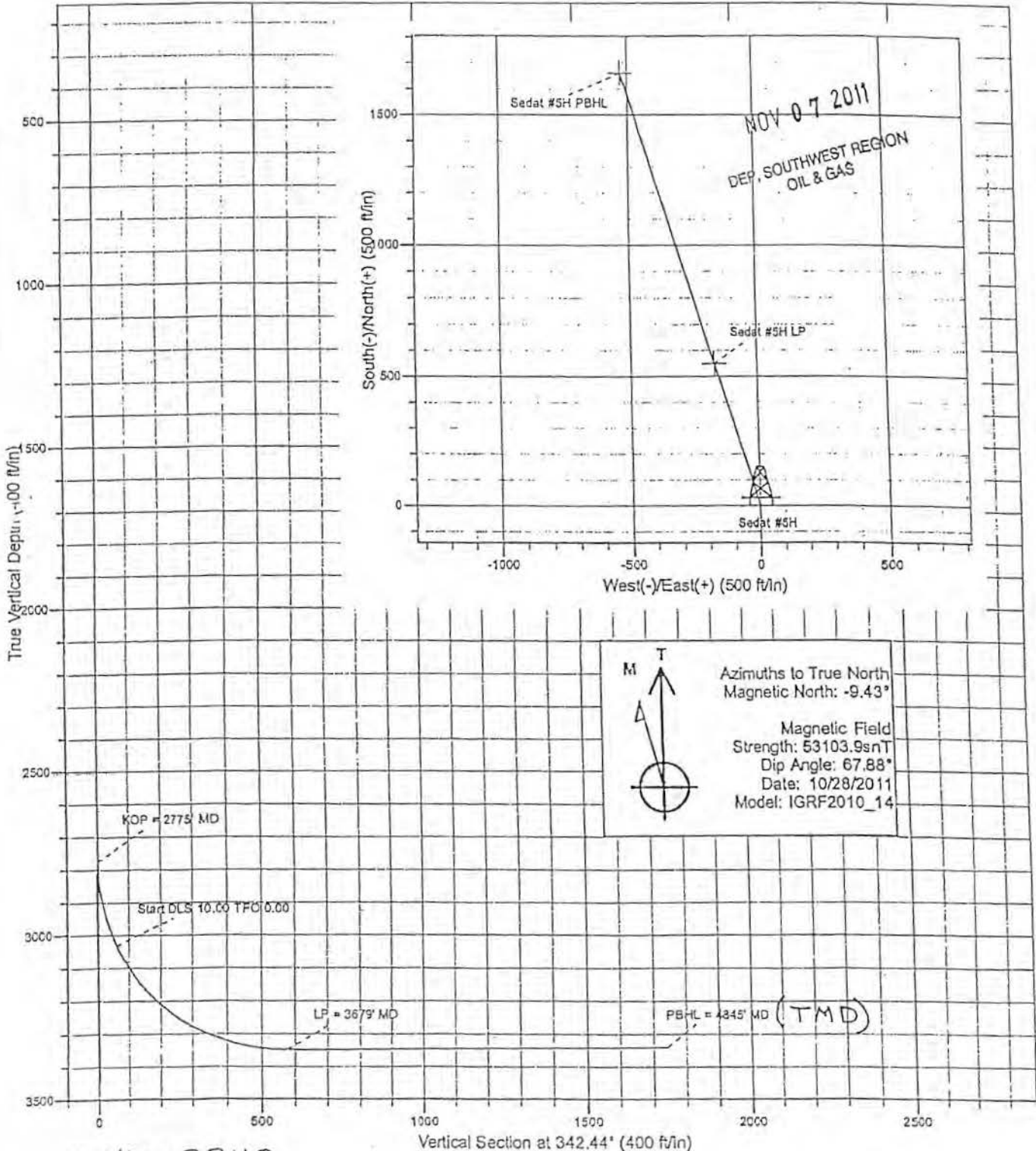


Penneco Oil Company

OCT 31 2011

DEP, SOUTHWEST REGION
OIL & GAS

Project: Allegheny County, PA
Site: Plum Borough #5H
Well: Sedat #5H
Wellbore: Main Wellbore
Design: Plan 1



TVD = 3340
Bottom of Pilot Hole = 3450

003-222 00

Penneco Oil Company

Allegeny County, PA
Plum Borough #5H
Sedat #5H

Main Wellbore

Plan: Plan 1

Standard Planning Report

28 October, 2011

OCT 31 2011

DEP, SOUTHWEST REGION
OIL & GAS

003-22200

Phoenix Technology Services
Planning Report

| | | | |
|-----------|----------------------|------------------------------|---------------------------------------|
| Database: | NER DB | Local Co-ordinate Reference: | Site Plum Borough #5H |
| Company: | Parneco Oil Company | TVD Reference: | WELL @ 1256.80ft (Original Well Elev) |
| Project: | Allegheny County, PA | MD Reference: | WELL @ 1256.80ft (Original Well Elev) |
| Site: | Plum Borough #5H | North Reference: | True |
| Well: | Sedat #5H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Main Wellbore | | |
| Design: | Plan 1 | | |

| | | | |
|-------------|----------------------------|---------------|----------------|
| Project | Allegheny County, PA | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Pennsylvania Southern Zone | | |

| | | | | | |
|-----------------------|------------------|---------------|-----------------|-------------------|------------------|
| Site | Plum Borough #5H | | | | |
| Site Position: | Northing: | 440,348.19 ft | Latitude: | 40° 31' 31.750 N | |
| From: | Lat/Long | Easting: | 1,423,066.00 ft | Longitude: | 79° 42' 43.980 W |
| Position Uncertainty: | 0.00 ft | Spot Radius: | 13.200 in | Grid Convergence: | -1.27 ° |

| | | | | | | |
|----------------------|-----------|---------------------|-----------|-----------------|-------------|------------------|
| Well | Sedat #5H | | | | | |
| Well Position | +N/S | 0.00 ft | Northing: | 440,348.19 ft | Latitude: | 40° 31' 31.750 N |
| | +E/W | 0.00 ft | Easting: | 1,423,066.00 ft | Longitude: | 79° 42' 43.980 W |
| Position Uncertainty | 0.00 ft | Wellhead Elevation: | | Ground Level: | 1,248.00 ft | |

| | | | | | |
|-----------|---------------|-------------|-------------|-----------|----------------|
| Wellbore | Main Wellbore | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | IGRF2010_14 | 10/28/2011 | -9.43 | 67.88 | 53,104 |

| | | | | |
|-------------------|------------------|------|---------------|-----------|
| Design | Plan 1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/S | +E/W | Direction |
| | (ft) | (ft) | (ft) | (ft) |
| | 0.00 | 0.00 | 0.00 | 342.44 |

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/S (ft) | +E/W (ft) | Dogleg Rate (1/1000) | Build Rate (1/1000) | Turn Rate (1/1000) | True TFO (ft) | Target |
|---------------------|-----------------|-------------|---------------------|-----------|-----------|----------------------|---------------------|--------------------|---------------|----------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,775.80 | 0.00 | 0.00 | 2,775.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,040.13 | 26.43 | 342.44 | 3,030.85 | 57.10 | -18.07 | 10.00 | 10.00 | 0.00 | 342.44 | |
| 3,879.81 | 90.39 | 342.44 | 3,348.80 | 550.05 | -174.07 | 10.00 | 10.00 | 0.00 | 0.00 | Sedat #5H LP |
| 4,845.76 | 90.39 | 342.44 | 3,340.80 | 1,681.64 | -525.83 | 0.00 | 0.00 | 0.00 | 0.00 | Sedat #5H PBHL |

OCT 31 2011

DEP, SOUTHWEST REGION
OIL & GAS

003-22200

OCT 8 1 2011

Phoenix Technology Services
Planning Report

DEP, SOUTHWEST REGION
OIL & GAS

Database: NER DB
Company: Pennco Oil Company
Project: Allegheny County, PA
Site: Plum Borough #5H
Well: Sedat #5H
Wellbore: Main Wellbore
Design: Plan 1

Local Co-ordinate Reference: Site Plum Borough #5H
TYD Reference: WELL @ 1256.80ft (Original Well Elev)
MD Reference: WELL @ 1256.80ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (1/100ft) | Build Rate (1/100ft) | Turn Rate (1/100ft) |
|--------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,775.80 | 0.00 | 0.00 | 2,775.80 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| KOP = 2775' MD | | | | | | | | | |
| 2,800.00 | 2.42 | 342.44 | 2,799.99 | 0.49 | -0.15 | 0.51 | 10.00 | 10.00 | 0.00 |
| 2,900.00 | 12.42 | 342.44 | 2,899.03 | 12.78 | -4.05 | 13.41 | 10.00 | 10.00 | 0.00 |
| 3,000.00 | 22.42 | 342.44 | 2,994.32 | 41.29 | -13.07 | 43.31 | 10.00 | 10.00 | 0.00 |
| 3,040.13 | 26.43 | 342.44 | 3,030.85 | 57.10 | -18.07 | 59.89 | 10.00 | 10.00 | 0.00 |
| 3,041.79 | 26.60 | 342.44 | 3,032.34 | 57.81 | -18.30 | 60.84 | 10.00 | 10.00 | 0.00 |
| Start DLS 10.00 TFO 0.00 | | | | | | | | | |
| 3,100.00 | 32.42 | 342.44 | 3,082.98 | 85.13 | -25.94 | 89.29 | 10.00 | 10.00 | 0.00 |
| 3,200.00 | 42.42 | 342.44 | 3,182.30 | 142.99 | -45.25 | 149.98 | 10.00 | 10.00 | 0.00 |
| 3,300.00 | 52.42 | 342.44 | 3,229.88 | 213.10 | -67.44 | 223.51 | 10.00 | 10.00 | 0.00 |
| 3,400.00 | 62.41 | 342.44 | 3,283.97 | 293.33 | -92.83 | 307.87 | 10.00 | 10.00 | 0.00 |
| 3,500.00 | 72.41 | 342.44 | 3,322.03 | 381.25 | -120.85 | 399.88 | 10.00 | 10.00 | 0.00 |
| 3,600.00 | 82.41 | 342.44 | 3,343.79 | 474.18 | -150.06 | 497.35 | 10.00 | 10.00 | 0.00 |
| 3,679.72 | 90.39 | 342.44 | 3,348.79 | 550.04 | -174.07 | 576.92 | 10.00 | 10.00 | 0.00 |
| LP = 3679' MD | | | | | | | | | |
| 3,679.81 | 90.39 | 342.44 | 3,348.80 | 550.05 | -174.07 | 576.94 | 10.00 | 10.00 | 0.00 |
| 3,700.00 | 90.39 | 342.44 | 3,348.86 | 569.30 | -180.16 | 597.12 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 90.39 | 342.44 | 3,347.98 | 684.84 | -210.33 | 697.12 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 90.39 | 342.44 | 3,347.29 | 759.97 | -240.50 | 797.12 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 90.39 | 342.44 | 3,346.80 | 855.31 | -270.87 | 897.12 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 90.39 | 342.44 | 3,345.92 | 950.85 | -300.84 | 997.12 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 90.39 | 342.44 | 3,345.23 | 1,045.99 | -331.01 | 1,097.11 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 90.39 | 342.44 | 3,344.54 | 1,141.32 | -361.18 | 1,197.11 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 90.39 | 342.44 | 3,343.86 | 1,236.68 | -391.35 | 1,297.11 | 0.00 | 0.00 | 0.00 |

003-22200

Phoenix Technology Services
Planning Report

Database: NER DB
Company: Pennco Oil Company
Project: Allegany County, PA
Site: Plum Borough #5H
Well: Sedat #5H
Wellbore: Main Wellbore
Design: Plan 1

Local Co-ordinate Reference: Site Plum Borough #5H
TYD Reference: WELL @ 1256.80ft (Original Well Elev)
MD Reference: WELL @ 1256.80ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (m) | N-S (m) | E-W (m) | Vertical Section (m) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
|---------------------|-----------------|-------------|--------------------|----------|---------|----------------------|-----------------------|----------------------|---------------------|
| 4,500.00 | 90.39 | 342.44 | 3,343.17 | 1,332.00 | -421.52 | 1,397.11 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 90.39 | 342.44 | 3,342.49 | 1,427.34 | -451.69 | 1,497.10 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 90.39 | 342.44 | 3,341.80 | 1,522.88 | -481.86 | 1,597.10 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 90.39 | 342.44 | 3,341.11 | 1,618.01 | -512.03 | 1,697.10 | 0.00 | 0.00 | 0.00 |
| 4,845.76 | 90.39 | 342.44 | 3,340.80 | 1,661.64 | -525.83 | 1,742.86 | 0.00 | 0.00 | 0.00 |

PBHL = 4845' MD

Design Targets

| Target Name | Dip Angle (°) | Dip Dir (°) | TYD (m) | N-S (m) | E-W (m) | Northing (m) | Easting (m) | Latitude | Longitude |
|--|---------------|-------------|----------|----------|---------|--------------|--------------|------------------|------------------|
| Sedat #5H PBHL - plan hits target center - Point | 0.00 | 0.00 | 3,340.80 | 1,661.64 | -525.83 | 442,021.11 | 1,422,577.22 | 40° 31' 48.170 N | 79° 42' 50.790 W |
| Sedat #5H LP - plan hits target center - Point | 0.00 | 0.00 | 3,348.80 | 550.05 | -174.07 | 440,901.98 | 1,422,904.20 | 40° 31' 37.185 N | 79° 42' 46.234 W |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (m) | N-S (m) | E-W (m) | Comments |
|---------------------|--------------------|----------|---------|--------------------------|
| 2,775.80 | 2,775.80 | 0.00 | 0.00 | KOP = 2775' MD |
| 3,041.79 | 3,032.34 | 57.81 | -18.30 | Start DLS 10.00 TFO 0.00 |
| 3,679.79 | 3,348.80 | 550.03 | -174.06 | LP = 3679' MD |
| 4,845.77 | 3,340.80 | 1,661.64 | -525.83 | PBHL = 4845' MD |

OCT 8 1 2011

DEP, SOUTHWEST REGION
OIL & GAS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil & Gas Management Program

| |
|------------------------|
| DEP USE ONLY |
| Application Tracking # |

Proposed Alternate Method or Material for
Casing, Plugging, Venting or Equipping a Well

| | | |
|--------------------------------------|------------------------|--|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well Permit or Registration Number 003-22200-00 |
| Address 6608 Route 22 | State PA | Well Form Name Sedat |
| City Delmont | Zip Code 15626-2408 | Well # #5H |
| Phone 724-468-8232 | Fax 724-468-8230 | Serial # PS-1753 |
| | | County Allegheny |
| | | Municipality Plum Borough |

A proposed alternate method is subject to provisions in Section 211 of the Oil and Gas Act, Section 13 of the Coal and Gas Resource Coordination Act, and 25 PA Code §78.75 Alternate Methods. Attach proof of notification of coal operator(s).

Describe in reasonable detail using a written description and / or diagram:

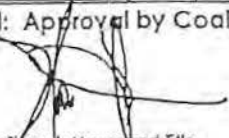
1. the proposed alternate method or materials, and
2. the manner in which the alternative will satisfy the goals of the laws and regulations.

The purpose of this submission is to account for the proximity of the referenced well to the documented boundary of an abandoned deep mine and to offer an alternative casing scenario should the coal isolation segment of the well realize a mine void.

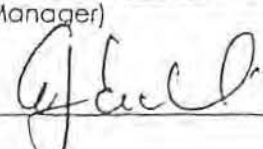
In the event that the construction of the above referenced well were interrupted by a mine void encounter rather than the anticipated stump or solid coal, the drilling contractor will continue drilling another 50 feet below the mine floor (ream if necessary), install the requisite isolation string of casing (basket set above mine ceiling), and cement using the balance and grout method.

OCT 31 2011

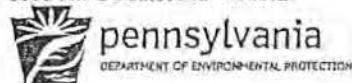
DEP, SOUTHWEST REGION
OIL & GAS

| | |
|--|--|
| <p>Optional: Approval by Coal Owner or Operator</p> <p>Signature  Date 10/28/11</p> <p>Print or Type Signer's Name and Title D. Marc Jacobs</p> | <p>Signature of Applicant / Well Operator</p> <p>Signature _____ Date _____</p> <p>Print or Type Signer's Name and Title D. Marc Jacobs, Jr.-Senior Vice President</p> |
|--|--|

If optional approval is signed by coal owner or operator, the 15-day objection period may be waived.

| | | |
|---|---|-----------------|
| DEP USE ONLY | | |
| Approved by: (DEP Manager)  | Conditions: <input type="checkbox"/> YES, See Attached <input checked="" type="checkbox"/> NO | Date 12/9/11 |

003-22200CF



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



Well Record

| DEP USE ONLY | |
|--------------|-----------------|
| Site ID | Client Id |
| Client Id | Sub Facility Id |

WELL INFORMATION

| | | | | |
|---|----------------------|---|---|---------------------|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well API# 37-003-22200-00 | Well Farm Name Sedat | Well # 5H |
| Address 6608 Route 22 | | LAT 40°31' 31.7500" LONG - 79°42' 43.9800" | Project Number NAD 83 | Serfal # PS-1753 |
| City Delmont | State PA | Zip 15626-2408 | Municipality Plum | County Allegheny |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | USGS 7.5 min. quadrangle map New Kensington East | |
| Check the appropriate Submission: <input checked="" type="checkbox"/> Original Well Record <input type="checkbox"/> Amended Well Record | | | | Section 7 |

| | | |
|---------------------|--|--|
| Well Type | <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> CBM <input type="checkbox"/> Injection <input type="checkbox"/> Disposal <input type="checkbox"/> Storage | Wellbore Conditioning: |
| Well Orientation | <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached) | String Time / Volume / Rate / Material |
| Drill Method(s) | <input checked="" type="checkbox"/> Rotary - Air 3450' <input checked="" type="checkbox"/> Rotary - Mud 4850' <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other | 25' Grout (No Conditioning) |
| Drilling Started | 01/12/12 | Surface Elev. 1248 ft. |
| Drilling Complete | 03/17/12 | True Vertical Depth 3343 ft. |
| Date Well Completed | 03/17/12 | Total Measured Depth 4850 ft. |

CEMENT

Cement returned on surface casing? Yes No
 Cement returned on coal protective casing? Yes No
 Cement returned on intermediate casing? Yes No

| Casing String | Type/Class of Cement (Lead/Tail) | Slurry Temp F° | Amount of Cement (sks) (Lead/Tail/Total) | WOC hrs | WT PPG | Yield #/sk | Gas Migration Controls Used |
|--------------------------------------|---|----------------|--|---------|--------|------------|--|
| Conductor | CLA A, 3%cc 1/4# flake | 40 ° | 25 / 0 / 25 | 8 | 15.6 | 1.18 | Gas Block for Intermediate string cement |
| Surface | CLA A, 3%cc 1/4# flake | 40 ° | 450 / 0 / 450 | 8 | 15.6 | 1.18 | |
| Coal Protective | CLA A, 3%cc 1/4# flake | 34 ° | 650 / 0 / 650 | 8 | 15.6 | 1.18 | |
| Intermediate | Gas Block | 40 ° | 835 / 0 / 835 | 8 | 15.7 | 1.30 | |
| Production | 50% TYPE 1, 50% FLYASH, 0.75% CFL-2, 10% SALT, 0.2% FCP | 71 ° | 1264 / 0 / 1264 | 8 | 14.2 | 1.30 | |
| If additional strings attach form(s) | | | Total | 3224 | | | |

CASING AND TUBING

| Hole Size | Pipe Size | Wt. #/ft. | Grade Casing / Tubing Type | Thread / Weld - New/ Used | Amount In Well (ft.) | Hardware - Baskets / Packer / Centralizers (Total/String) | Date Run |
|-----------|-----------|-----------|----------------------------|---------------------------|----------------------|---|----------|
| 28" | 26" | 77.26 | PE | T - N | 35 | N/A | 01/13/12 |
| 22" | 20" | 94.00 | J-55 | T - N | 423 | guide shoe | 01/17/12 |
| 17 1/2" | 13 3/8" | 54.50 | MC-50 | T - N | 786 | guide shoe | 01/19/12 |
| 12 3/8" | 9 5/8" | 40.00 | MC-50 | T - N | 2510 | guide shoe | 01/26/12 |
| 8 1/2" | 4 1/2" | 11.60 | WT-80 | T - N | 4817 | float shoe | 03/17/12 |

If any casing is welded, provide the name(s) of the welder(s):

PLUG-BACK/WELLBORE ALTERATION

| Fill Material & Plugs | Depth | | Date | Casing & Tubing | | |
|---|-------|------|-------------|-----------------|--------|------|
| | From | To | | Size | Pulled | Left |
| Cement Kick Plug / 320 sks - CLA A, 3%cc 1/4# flake | 3450 | 2525 | 01/30/12 | N/A | N/A | N/A |
| | | | JUN 11 2012 | | | |

DEP SOUTHWEST REGION OIL & GAS
MAY 09 2012
DEP SOUTHWEST REGION OIL & GAS

003-22200

LOG OF FORMATIONS

Well API#: 37-003-22200-00

(If you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Lithology | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------------|---------------|------------------|------------------|------------------|----------------------------------|----------------|
| Fill | 0 | 5 | | | | Driller's Log |
| Shale | 5 | 35 | | | | |
| Sand | 35 | 55 | | | | |
| Red Rock | 55 | 400 | | | | |
| Gray Shale / Sand | 400 | 520 | | | | |
| Coal | 520 | 525 | | | | |
| Sand / Shale | 525 | 712 | | | F 700 | |
| Sand / Shale | 712 | 802 | | | | |
| Shale | 802 | 1042 | | | | |
| Sandy Shale | 1042 | 1322 | | | | |
| Shale | 1322 | 1452 | | | | |
| Sandy Shale | 1452 | 1882 | | | | |
| Sand | 1882 | 1912 | | | | |
| Shale | 1912 | 2002 | | | B 1972 | |
| Sand | 2002 | 2300 | | | B 2042 | |
| Red Rock | 2300 | 2420 | | | | |
| Sandy Shale | 2420 | 3450 | | | | |

MAY 09 2012

DEP. SOUTHWEST REGION
OIL & GAS

JUN 11 2012

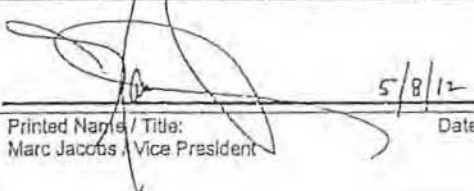

DEP. SOUTHWEST REGION
OIL & GAS

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

| Casing Source | Cementing Company | Hardware Supplier | Logging Company |
|--|---|--|---|
| Name McJunkin Redman Corporation | Name Universal Well Services, Inc. | Name Ken Miller Supply, Inc. | Name Weatherford International |
| Address 480 Geesey Road | Address 324 Meter St. | Address 5484 Route 286 Hwy. E. | Address 124 Windy Ridge Lane |
| City - State - Zip Indiana PA 15701 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 | City - State - Zip Elderton PA 15736 |
| Phone (724)349-8823 | Phone (814)938-5327 | Phone (724)465-8875 | Phone (724)354-3090 |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Driller | Well Operator's Signature | DEP USE ONLY |
|---|--|---|
| Name U. S. Energy |  Printed Name / Title: Marc Jacobs / Vice President | Reviewed by: |
| Rig 4 / 8 | |  Date: 5/8/12 |
| Address P.O. Box 237 | | |
| City - State - Zip Rural Valley PA 16249 | | |
| Phone (24)783-7624 | | |

003-22200

LOG OF FORMATIONS

Well API#: 37-003-22200-00

(If you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Lithology | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------------|---------------|------------------|------------------|------------------|----------------------------------|----------------|
| Fill | 0 | 5 | | | | Driller's Log |
| Shale | 5 | 35 | | | | |
| Sand | 35 | 55 | | | | |
| Red Rock | 55 | 400 | | | | |
| Gray Shale / Sand | 400 | 520 | | | | |
| Coal | 520 | 525 | | | | |
| Sand / Shale | 525 | 712 | | | F 700 | |
| Sand / Shale | 712 | 802 | | | | |
| Shale | 802 | 1042 | | | | |
| Sandy Shale | 1042 | 1322 | | | | |
| Shale | 1322 | 1452 | | | | |
| Sandy Shale | 1452 | 1882 | | | | |
| Sand | 1882 | 1912 | | | | |
| Shale | 1912 | 2002 | | | B 1972 | |
| Sand | 2002 | 2300 | | | B 2042 | |
| Red Rock | 2300 | 2420 | | | | |
| Sandy Shale | 2420 | 3450 | | | | |

MAY 09 2012

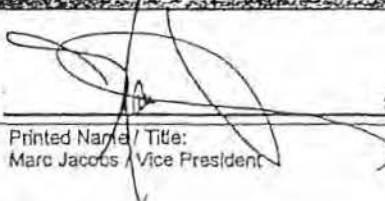
DEP, SOUTHWEST REGION
OIL & GAS

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES: Provide the name, address and telephone number of all well service companies involved.

| Casing Source | Cementing Company | Hardware Supplier | Logging Company |
|--|---|--|---|
| Name McJunkin Redman Corporation | Name Universal Well Services, Inc. | Name Ken Miller Supply, Inc. | Name Weatherford International |
| Address 480 Geesay Road | Address 324 Meter St. | Address 5484 Rounta 286 Hwy. E. | Address 124 Windy Ridge Lane |
| City - State - Zip Indiana PA 15701 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 | City - State - Zip Elderton PA 15736 |
| Phone (724)349-6823 | Phone (814)938-5327 | Phone (724)465-8875 | Phone (724)354-3090 |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Driller | | Well Operator's Signature | | DEP USE ONLY | |
|---|--------------|--|--|-----------------|-----------|
| Name U. S. Energy | Rig 4 / 8 |  Printed Name / Title: Marc Jacobs / Vice President | | Reviewed by: | |
| Address P.O. Box 237 | | | | Date: 5/8/12 | Comments: |
| City - State - Zip Rural Valley PA 16249 | | | | | |
| Phone (724)783-7624 | | | | | |

GEO COPY

003-22200 CF



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

| DEP USE ONLY | |
|--------------|---------------------|
| Site ID | Primary Facility ID |
| Client ID | Sub Facility ID |

Graph +
Standard Survey Report

Completion Report

| Well Information | | | | | |
|--------------------------------------|----------------------|-------------------------------|---|---------------------|---------------------|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well API # 37-003-22200-00 | Well Farm Name Sedat | Well # 5H | |
| Address 8608 Route 22 | | LAT - 40° 31' 31.7500" | NAD 83 | Project Number | Serial # PS-1753 |
| City Delmont | State PA | Zip Code 15626 | Municipality Plum | County Alleghany | |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | USGS 7.5 min. quadrangle map New Kensington East | Section 7 | |

Check the appropriate submission: Original Completion Report Amended Completion Report

| STIMULATION BASE FLUID | | | |
|--------------------------------------|------------------------------|-----------------------------|------------------|
| List Water Management Plan Source(s) | Water Management Plan ID | Volume (Gallons) | |
| 1. Not Applicable | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| | DEP Biologist Review/Date | Total Gallons of Water Used | Water Recycled |
| Other Base Fluid(s) Used | | | Quantity and UOM |
| 1. | | | / |
| 2. | | | / |
| Total Quantity all Fluid(s) | | | / |

| STIMULATION/PRODUCTION INFORMATION (WELL) | | | |
|--|---|--|--------------------------------|
| Radioactive tracers used? <input type="checkbox"/> | 24 Hr. Open-Flow (MCF/Day) / Data Still Testing / -- | 24 Hr. Shut-in Pressure / Date Still Testing / -- | Completion Date: 04/25/12 |
| Specify Tracer | | | |
| Well Products: <input checked="" type="checkbox"/> Gas Btu 1050 (Expected) | <input checked="" type="checkbox"/> Oil API G 39 (Expected) | <input type="checkbox"/> Condensate API G | <input type="checkbox"/> Other |
| <input type="checkbox"/> GOR Still Testing | | | |

| WELL SERVICE COMPANIES | | |
|---|---|--|
| Perforation Company | Frac Company | Plug Drill Out/Flow Back Company |
| Name Titan Wireline Services | Name Universal Well Services, Inc. | Name Multi Production Systems Inc. |
| Address 717 Pennsylvania 210 | Address 324 Meter St. | Address 314 Mill Run Drive |
| City - State - Zip Shelocia PA 15774 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 |
| Phone (724)354-2629 | Phone (814)938-5327 | Phone (724)465-6663 |

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | |
|---|----------------------------|
| Well Operator's Signature | DEP USE ONLY |
| | Reviewed by: Date: 6-6-12 |
| Printed Name / Title: Marc Jacobs / Vice President | Date: 5/8/12 |
| | Comments: |

003-22200

Well API# 37-003-22200-00

| STIMULATION FLUID ADDITIVES | | | | | | | |
|---|-------------------------------|-------------------------|---|-----------------------------|-----------------------------------|---|-----------------------|
| Note: Information designated as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on the "Confidential Stimulation Fluid Additives" form. | | | | | | | |
| Trade Name | Supplier | Purpose | Ingredients | CAS # of Chemical Component | Max. Component % Mass in Additive | Chemical Component % Mass used in Total Base Fluid (Pg 1) | Comment |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Solvent Naptha (Petroleum), petroleum aromatic | 64742-84-5 | 85 - 100% | 0.074% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Poly(oxy-1,2-ethanedyl), n(nonylphenyl)-w-hydroxy-phosphate | 51811-79-1 | 30 - 80% | 0.042% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Naphthalene | 91-20-3 | 3 - 7% | 0.005% | |
| CLA CHEK LP | Clearwater International LLC | Clay Control | Ethylene Glycol | 107-21-1 | 30 - 80% | 0.024% | |
| EC9118A | Nalco Company | Biocide | Dibromozelconitrite | 3252-43-5 | 1.0 - 5.0% | 0.001% | |
| EC0118A | Nalco Company | Biocide | 2,2-Dibromo-3-nitroisopropionamide | 10222-01-2 | 10.0 - 30.0% | 0.004% | |
| EC8118A | Nalco Company | Biocide | Polyethylene Glycol | 25322-68-3 | 30.0 - 90.0% | 0.009% | |
| Fomax 50 | CESI Chemical | Flow Control | Isopropanol | 67-63-0 | 1 - 15% | 0.008% | |
| Fomax 50 | CESI Chemical | Flow Control | Citrus Terpenes | 94268-47-4 | 1 - 15% | 0.000% | |
| Hydrochloric Acid | Niacet Corporation | Formation Breaker | Hydrochloric Acid | 7647-01-0 | 21 - 33% | 0.325% | |
| IRON STA II C | Clearwater International LLC | Iron Control Agent | Ethylene Glycol | 107-21-1 | 10 - 30% | 0.011% | MAY 09 2012 |
| LEB 10X | Clearwater International LLC | Gel Breaker | Ethylene Glycol | 107-21-1 | 30 - 80% | 0.001% | DEP. SOUTHWEST REGION |
| NE-90 | Universal Well Services, Inc. | Flow Control | Methanol | 67-56-1 | 30 - 80% | 0.037% | OIL & GAS |
| NE-90 | Universal Well Services, Inc. | Flow Control | Isopropanol | 67-63-0 | 5.0 - 10.0% | 0.006% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Heavy Aromatic Naptha | 64742-94-5 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Polyethylene Glycol | 25322-68-3 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | EO-C7-9-iso, C8-rich alcohols | 78330-19-5 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | EO-C9-11-iso, C10-rich alcohols | 78330-20-8 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | 2-Ethylhexanol | 104-76-7 | 5.0 - 10.0% | 0.006% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Napthalene | 91-20-3 | 0.1 - 1.0% | 0.000% | |
| Sand | Unimin Corporation | Proppant | Crystalline Silica In the form of Quartz | 14808-60-7 | 87 - 99.9% | 5.796% | |
| SUPER SURF | Clearwater International LLC | Surface Tension Reducer | Methanol | 67-56-1 | 30 - 80% | 0.021% | JUN 11 2012 |
| Inigel 5F | Clearwater International LLC | Gelling Agent | Guar Gum | N/A | >85% | 0.077% | |

Please insert additional copies of this page if additional rows are needed. SOUTHWEST REGION OIL & GAS

003-22200

Well API# 37 -003-22200-00

STIMULATION INFORMATION / STAGE

Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).

| Stg # | Stimulation Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Proppant Type | Proppant Mesh Size(s) |
|-------|------------------|---------------------|------------------------------|------------------------------|------------|---------------|-----------------------|
| 1 | 04/23/12 | 40.0 | 3,727 | 4,200 | 1,800 | White Sand | 20/40 |
| 2 | 04/23/12 | 40.0 | 4,225 | 4,870 | 2,000 | White Sand | 20/40 |
| 3 | 04/23/12 | 40.0 | 3,790 | 3,400 | 2,000 | White Sand | 20/40 |
| 4 | 04/23/12 | 40.0 | 4,080 | 5,100 | 1,800 | White Sand | 20/40 |
| 5 | 04/23/12 | 40.0 | 4,526 | 4,300 | 1,900 | White Sand | 20/40 |
| 6 | 04/24/12 | 40.0 | 3,704 | 4,200 | 2,100 | White Sand | 20/40 |
| 7 | 04/24/12 | 40.0 | 3,505 | 4,300 | 2,100 | White Sand | 20/40 |
| 8 | 04/24/12 | 40.0 | 3,514 | 4,300 | 2,200 | White Sand | 20/40 |
| 9 | 04/24/12 | 40.0 | 3,600 | 4,610 | 2,100 | White Sand | 20/40 |
| 10 | 04/24/12 | 40.0 | 4,045 | 5,160 | 2,050 | White Sand | 20/40 |
| 11 | 04/24/12 | 42.0 | 4,080 | 4,320 | 2,050 | White Sand | 20/40 |
| 12 | 04/25/12 | 25.0 | 3,145 | 5,130 | 2,100 | White Sand | 20/40 |
| 13 | 04/25/12 | 25.0 | 3,002 | 5,080 | 2,000 | White Sand | 20/40 |
| 14 | 04/25/12 | 25.0 | 2,725 | 4,090 | 2,100 | White Sand | 20/40 |
| 15 | 04/25/12 | 25.0 | 2,618 | 3,020 | 2,000 | White Sand | 20/40 |
| 16 | | | | | | | |
| 17 | | | | | | | |
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MAY 09 2012

DEP. SOUTHWEST REGION
Oil & Gas

JUN 11 2012
DEP. SOUTHWEST REGION
OIL & GAS

603-22200

CONFIDENTIAL - STIMULATION FLUID ADDITIVES - CONFIDENTIAL

Note: Additives designated on the "Stimulation Fluid Additives" as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on this or similarly identified sheet as confidential to this report.

| Trade Name | Supplier | Purpose | Ingredients | CAS No. of Chemical Component | Maximum Component % by Mass in Additive | Chemical Component % Mass used in Total Base Fluid (Pg. 1) | Comment |
|------------|----------|---------|-------------|-------------------------------|---|--|---------|
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The Department will prevent disclosure of the designated confidential information to the extent permitted under the Right-to-know Law (65 P.S. §67.101-67.3103).
Use additional pages as needed.

Contact information for person requesting confidentiality of above listed information:

| | |
|--------------------|--|
| Name/Title | |
| Address | |
| City - State - Zip | |
| Phone | |
| Signature | |

JUN 11 2012
DEP. SOUTHWEST REGION
OIL & GAS

MAY 09 2012
DEP. SOUTHWEST REGION
OIL & GAS

003-22205

5500-PM-0G0002 Rev. 9/2008



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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS MANAGEMENT PROGRAM
WELL LOCATION PLAT

| | | |
|------|------------|---------|
| DEP | App-ID # | 7F |
| USE | 003-22205 | 7-10-12 |
| ONLY | Project F: | RP |

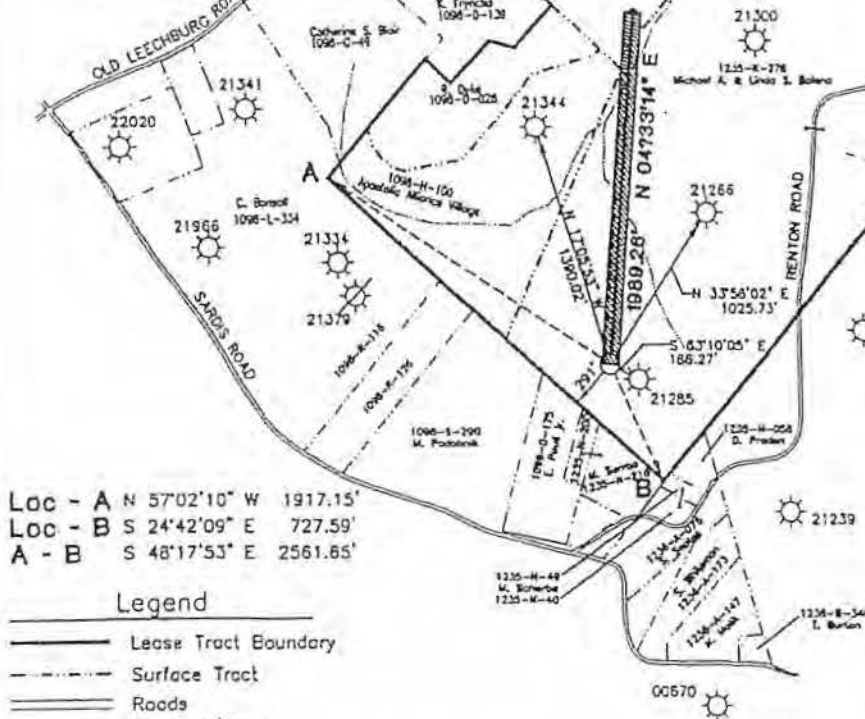
| | |
|-----------------|---------------------------------------|
| | Denotes location of well on topo map. |
| True Latitude: | NORTH |
| | 40° 30' 48.09" |
| True Longitude: | WEST |
| | 79° 42' 54.05" |

Well is located on topo map 10,312 feet south of latitude 40° 32' 30"

Bottom Hole NAD 83

LAT: 40° 31' 07.72"
LON: 79° 42' 52.58"

NOTE:
Parcels 1098-H-100 & 1098-H-028 are subject to the Rudolph D. Dyke lease. Parcels 1235-K-276 and 1098-D-277 are subject to the James E. Burton Lease.



Loc - A N 57°02'10" W 1917.15'
Loc - B S 24°42'09" E 727.59'
A - B S 48°17'53" E 2561.65'

- Legend**
- Lease Tract Boundary
 - Surface Tract
 - Roads
 - Streams/Water
 - Bottom Hole Location
 - Proposed Well Location
 - Existing Well
 - Plugged Well
 - Water Well +-

UNIT BREAKDOWN

| | |
|-----------------------------------|----------------------------|
| Rudolph D. Dyke (A.L.V.) | - 38.4 sq.ft. = 0.02% |
| James E. Burton (Balena) | - 176002.4 sq.ft. = 88.47% |
| Alvin R. & Diane E. Miller (Fuge) | - 22857.1 sq.ft. = 11.51% |
| Unit Area | - 198927.9 sq.ft. = 100% |



Surveyor or Engineer: W.D. Mohney & Associates (724) 543-1023 sedat area Date: November 16, 2011 Scale: 1" = 1000' Tract Acreage: 171 ±

| | | |
|--|--|--|
| Lot & Long Method GPS-Code Based Accuracy 10 ± ft. Datum NAD 83 | Elevation Method PA. LIDAR Accuracy 20 ± ft. Datum NGVD29 | Survey Data Various Dates |
| Applicant / Well Operator Name Penneco Oil Company | Well (Form) Name Burton Unit | Well / Serial 4H / PB-1752 |
| Address 6608 US Route 22, Delmont, PA. 15626 | County Allegheny | Municipality Plum Borough |
| Surface Landowner / Lessor Michael A. & Linda S. Baleno | USGS 7 1/2" Quadrangle Map Name New Kensington East, PA. - 1408 | Map Section 7 |
| Target Formation(s) Speechley | Angle & Course of Deviation (Drilling) N 04°33'14" E - 1989.26' | Anticipated Total Depth ft. TMD 3286-3370 TMD 5023' |
| Surface Owner or Water Purveyor/Approximate Course and with a Water Supply within 1000' Distance to Water Supply | Owner, Lessee, or Operator of Workable Coal Seam Consolidation Coal Company Michael A. & Linda S. Baleno | Name of Coal Seam Upper Freeport Seam All Others |

Gas-Upper Freeport Seam

Well is located on topo map 1,857 feet west of longitude 79° 42' 30"

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OIL & GAS

003-22205

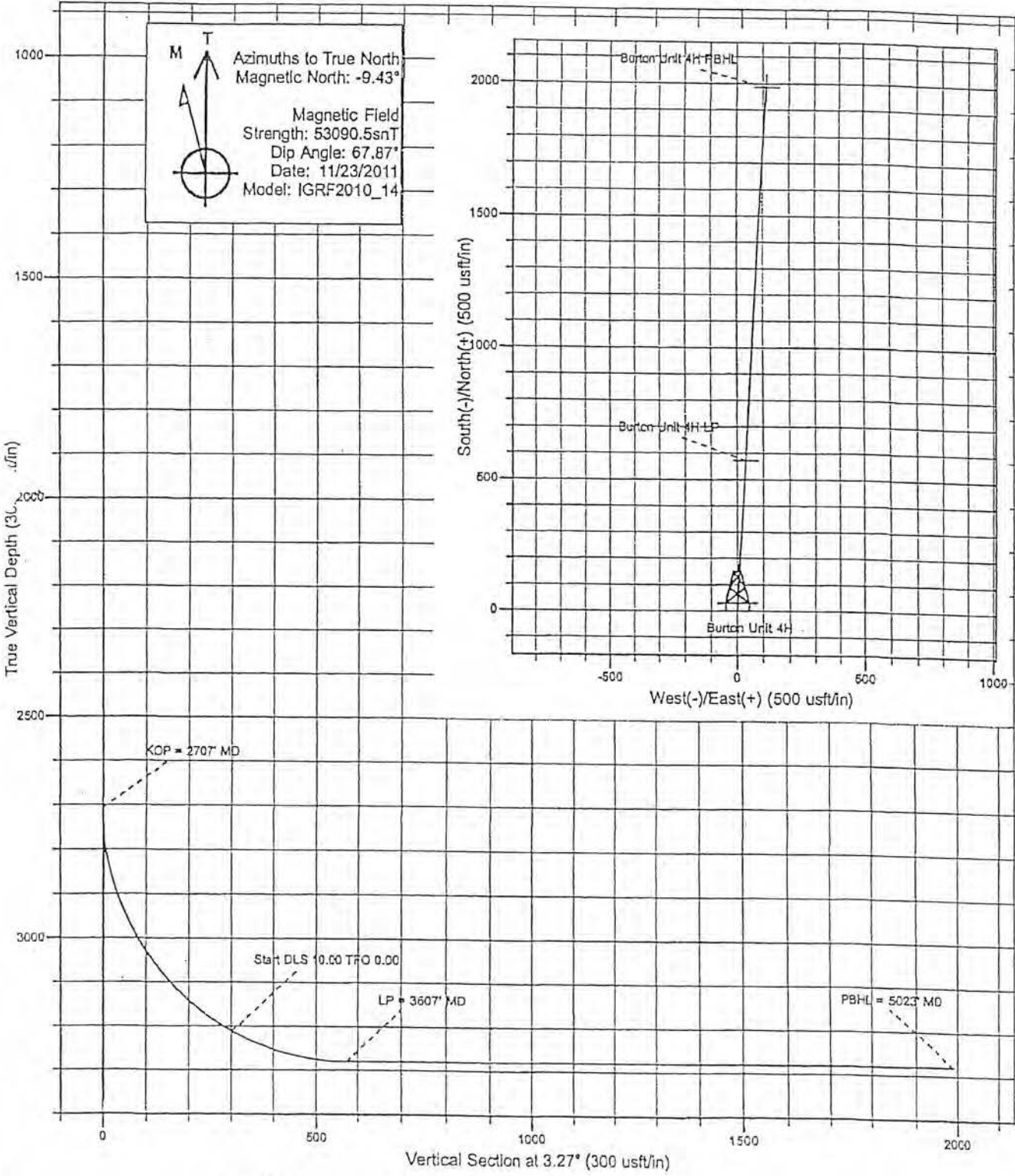


DEC 08 2011

Penneco Oil Company

DEP, SOUTHWEST REGION
OIL & GAS

Project: Allegheny County, PA
Site: Plum Borough 4H
Well: Burton Unit 4H
Wellbore: Main Wellbore
Design: Plan 1



M T
Azimuths to True North
Magnetic North: -9.43°

Magnetic Field
Strength: 53090.5snT
Dip Angle: 67.87°
Date: 11/23/2011
Model: IGRF2010_14

TVD=3280'

003-22203-

Penneco Oil Company

Allegheny County, PA
Plum Borough 4H
Burton Unit 4H

Main Wellbore

Plan: Plan 1

Standard Planning Report

23 November, 2011

RECEIVED

DEC - 2 2011

DER, SOUTHWEST REGION
OIL & GAS

Phoenix Technology Services
Planning Report

003-22205

| | | | |
|-----------|----------------------|------------------------------|--|
| Database: | NER DB v5000 | Local Co-ordinate Reference: | Site Plum Borough 4H |
| Company: | Penneco Oil Company | TVD Reference: | WELL @ 1168.0usft (Original Well Elev) |
| Project: | Allegheny County, PA | MD Reference: | WELL @ 1168.0usft (Original Well Elev) |
| Site: | Plum Borough 4H | North Reference: | True |
| Well: | Burton Unit 4H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Main Wellbore | | |
| Design: | Plan 1 | | |

| | | | |
|-------------|----------------------------|---------------|----------------|
| Project | Allegheny County, PA | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Pennsylvania Southern Zone | | |

| | | | | | |
|-----------------------|-----------------|--------------|-------------------|-------------------|------------------|
| Site | Plum Borough 4H | | | | |
| Site Position: | | Northing: | 435,947.49 usft | Latitude: | 40° 30' 48.090 N |
| From: | Lat/Long | Easting: | 1,422,187.44 usft | Longitude: | 79° 42' 54.050 W |
| Position Uncertainty: | 0.0 usft | Spot Radius: | 13-3/16" | Grid Convergence: | -1.27" |

| | | | | | | |
|----------------------|----------------|---------------------|-----------|-------------------|--------------|------------------|
| Well | Burton Unit 4H | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 435,947.49 usft | Latitude: | 40° 30' 48.090 N |
| | +E/-W | 0.0 usft | Easting: | 1,422,187.44 usft | Longitude: | 79° 42' 54.050 W |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | | Ground Level: | 1,168.0 usft | |

| | | | | | |
|-----------|---------------|-------------|-----------------|---------------|---------------------|
| Wellbore | Main Wellbore | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010_14 | 11/23/2011 | -9.43 | 67.87 | 53,090 |

| | | | | |
|-------------------|-------------------------|--------------|---------------|---------------|
| Design | Plan 1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 3.27 |

| Plan Sections | | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target | |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 2,707.0 | 0.00 | 0.00 | 2,707.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| 3,323.6 | 61.66 | 3.27 | 3,211.3 | 300.5 | 17.2 | 10.00 | 10.00 | 0.00 | 3.27 | | |
| 3,607.1 | 90.00 | 3.27 | 3,290.0 | 572.1 | 32.7 | 10.00 | 10.00 | 0.00 | 0.00 | Burton Unit 4H LP | |
| 5,023.8 | 90.00 | 3.27 | 3,280.0 | 1,986.5 | 113.5 | 0.00 | 0.00 | 0.00 | 0.00 | Burton Unit 4H PBHL | |

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DEP, SOUTHWEST REGION
OIL & GAS

Phoenix Technology Services
Planning Report

003-22205

Database: NER DB v5000
Company: Penneco Oil Company
Project: Allegheny County, PA
Site: Plum Borough 4H
Well: Burton Unit 4H
Wellbore: Main Wellbore
Design: Plan 1

Local Co-ordinate Reference: Sita Plum Borough 4H
TVD Reference: WELL @ 1168.0usft (Original Well Elev)
MD Reference: WELL @ 1168.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--------------------------|-----------------|-------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 0.00 | 0.00 | 1,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 0.00 | 0.00 | 1,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 0.00 | 0.00 | 1,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 0.00 | 0.00 | 1,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 0.00 | 0.00 | 1,800.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 0.00 | 0.00 | 1,900.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 0.00 | 0.00 | 2,000.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 0.00 | 0.00 | 2,100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 0.00 | 0.00 | 2,200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 0.00 | 0.00 | 2,300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 0.00 | 0.00 | 2,400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 0.00 | 0.00 | 2,500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 0.00 | 0.00 | 2,600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 0.00 | 0.00 | 2,700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 2,707.0 | 0.00 | 0.00 | 2,707.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP = 2707' MD | | | | | | | | | |
| 2,800.0 | 9.30 | 3.27 | 2,799.6 | 7.5 | 0.4 | 7.5 | 10.00 | 10.00 | 0.00 |
| 2,900.0 | 19.30 | 3.27 | 2,896.4 | 32.1 | 1.8 | 32.2 | 10.00 | 10.00 | 0.00 |
| 3,000.0 | 29.30 | 3.27 | 2,987.4 | 73.2 | 4.2 | 73.3 | 10.00 | 10.00 | 0.00 |
| 3,100.0 | 39.30 | 3.27 | 3,069.9 | 129.4 | 7.4 | 129.6 | 10.00 | 10.00 | 0.00 |
| 3,200.0 | 49.30 | 3.27 | 3,141.4 | 199.0 | 11.4 | 199.3 | 10.00 | 10.00 | 0.00 |
| 3,300.0 | 59.30 | 3.27 | 3,199.7 | 280.0 | 16.0 | 280.4 | 10.00 | 10.00 | 0.00 |
| 3,323.8 | 61.88 | 3.27 | 3,211.3 | 300.5 | 17.2 | 301.0 | 10.00 | 10.00 | 0.00 |
| Start DLS 10.00 TFO 0.00 | | | | | | | | | |
| 3,400.0 | 69.30 | 3.27 | 3,243.0 | 369.8 | 21.1 | 370.4 | 10.00 | 10.00 | 0.00 |
| 3,500.0 | 79.29 | 3.27 | 3,270.0 | 465.8 | 26.6 | 466.6 | 10.00 | 10.00 | 0.00 |
| 3,600.0 | 89.29 | 3.27 | 3,279.9 | 565.0 | 32.3 | 566.0 | 10.00 | 10.00 | 0.00 |
| 3,607.1 | 90.00 | 3.27 | 3,280.0 | 672.1 | 32.7 | 573.0 | 10.00 | 10.00 | 0.00 |
| LP = 3607' MD | | | | | | | | | |
| 3,700.0 | 90.00 | 3.27 | 3,280.0 | 864.9 | 38.0 | 865.9 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 90.00 | 3.27 | 3,280.0 | 784.7 | 43.7 | 765.9 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 90.00 | 3.27 | 3,280.0 | 864.5 | 49.4 | 865.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 90.00 | 3.27 | 3,280.0 | 984.4 | 55.1 | 965.3 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 90.00 | 3.27 | 3,280.0 | 1,064.2 | 60.8 | 1,065.9 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 90.00 | 3.27 | 3,280.0 | 1,164.0 | 66.5 | 1,165.9 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 90.00 | 3.27 | 3,280.0 | 1,263.9 | 72.2 | 1,265.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 90.00 | 3.27 | 3,280.0 | 1,363.7 | 77.9 | 1,365.9 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 90.00 | 3.27 | 3,280.0 | 1,463.6 | 83.8 | 1,465.9 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 90.00 | 3.27 | 3,280.0 | 1,563.4 | 89.3 | 1,565.9 | 0.00 | 0.00 | 0.00 |

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Phoenix Technology Services
Planning Report

003-22205-

Database: NER DB v5000
Company: Penneco Oil Company
Project: Allegheny County, PA
Site: Plum Borough 4H
Well: Burton Unit 4H
Wellbore: Main Wellbore
Design: Plan 1

Local Co-ordinate Reference: Site Plum Borough 4H
TVD Reference: WELL @ 1168.0usft (Original Well Elev)
MD Reference: WELL @ 1168.0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 4,700.0 | 90.00 | 3.27 | 3,280.0 | 1,663.2 | 95.1 | 1,665.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 90.00 | 3.27 | 3,280.0 | 1,763.1 | 100.8 | 1,765.9 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 90.00 | 3.27 | 3,280.0 | 1,862.9 | 106.5 | 1,865.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 90.00 | 3.27 | 3,280.0 | 1,962.7 | 112.2 | 1,965.9 | 0.00 | 0.00 | 0.00 |
| 5,023.8 | 90.00 | 3.27 | 3,280.0 | 1,986.5 | 113.5 | 1,989.7 | 0.00 | 0.00 | 0.00 |

PBHL = 5023' MD

Design Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|------------------|
| Burton Unit 4H LP - plan hits target center - Point | 0.00 | 0.00 | 3,280.0 | 572.1 | 32.7 | 436,518.72 | 1,422,232.86 | 40° 30' 53.743 N | 79° 42' 53.827 W |
| Burton Unit 4H PBHL - plan hits target center - Point | 0.00 | 0.00 | 3,280.0 | 1,986.5 | 113.5 | 437,930.95 | 1,422,345.13 | 40° 31' 7.720 N | 79° 42' 52.580 W |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|--------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 2,707.0 | 2,707.0 | 0.0 | 0.0 | KOP = 2707' MD |
| 3,323.6 | 3,211.3 | 300.5 | 17.2 | Start OLS 10.00 TFO 0.00 |
| 3,807.1 | 3,280.0 | 572.1 | 32.7 | LP = 3807' MD |
| 5,023.8 | 3,280.0 | 1,986.5 | 113.5 | PBHL = 5023' MD |

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DER, SOUTHWEST REGION
OIL & GAS



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil & Gas Management Program

003-22205

| |
|------------------------|
| DEP USE ONLY |
| Application Tracking # |

Proposed Alternate Method or Material for
Casing, Plugging, Venting or Equipping a Well

| | | |
|--------------------------------------|---------------------|---|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well Permit or Registration Number 003-22205-00,01 |
| Address 6608 Route 22 | | Well Farm Name Burton Unit |
| City Delmont | State PA | Zip Code 15626-2408 |
| Phone 724-468-8232 | Fax 724-468-8230 | Well # #4H |
| | | County Allegheny |
| | | Serial # PB-1752 |
| | | Municipality Plum Borough |

A proposed alternate method is subject to provisions in Section 211 of the Oil and Gas Act, Section 13 of the Coal and Gas Resource Coordination Act, and 25 PA Code §78.75 Alternate Methods. Attach proof of notification of coal operator(s).

Describe in reasonable detail using a written description and / or diagram:

1. the proposed alternate method or materials, and
2. the manner in which the alternative will satisfy the goals of the laws and regulations.

The purpose of this submission is to account for the proximity of the referenced well to the documented boundary of an abandoned deep mine and to offer an alternative casing scenario should the coal isolation segment of the well realize a mine void.

In the event that the construction of the above referenced well were interrupted by a mine void encounter rather than the anticipated stump or solid coal, the drilling contractor will continue drilling another 50 feet below the mine floor (ream if necessary), install the requisite isolation string of casing (basket set above mine ceiling), and cement using the balance and grout method.

| | |
|--|--|
| Optional: Approval by Coal Owner or Operator | Signature of Applicant / Well Operator |
| Signature _____ Date _____ | Signature Date 12/1/11 |
| Print or Type Signer's Name and Title _____ | Print or Type Signer's Name and Title D. Marc Jacobs, Sr. - Senior Vice President |

If optional approval is signed by coal owner or operator, the 15-day objection period may be waived.

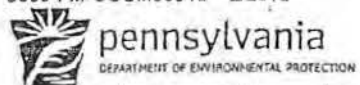
| DEP USE ONLY | | |
|--------------------------------|---|-----------------|
| Approved by: (DEP Manager) | Conditions: <input checked="" type="checkbox"/> YES, See Attached <input type="checkbox"/> NO | Date 1/11/12 |

for Alan Eichele

003-22205 *Trinity & R. Leto f. Universal*

CF

8000-FM-OOGM0004a 2/2012



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

Graph T standard Survey Report

Well Record

| DEP USE ONLY | |
|--------------|-----------------|
| Site ID | Client Id |
| Client Id | Sub Facility Id |

WELL INFORMATION

| | | | | |
|--------------------------------------|----------------------|---|---|---------------------|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well API # 37-003-22205-00-01 | Well Farm Name Burton Unit | Well # 4H |
| Address 6608 Routs 22 | | LAT 40°30' 48.0900" LONG - 79°42' 54.0500" | Project Number MAD 83 | Serial # PB-1752 |
| City Delmont | State PA | Zip 15626-2408 | Municipality Plum | County Allegheny |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | USGS 7.5 min. quadrangle map New Kensington East | Section 7 |

Check the appropriate Submission: Original Well Record Amended Well Record

| | |
|---|--|
| Well Type <input type="checkbox"/> Gas <input checked="" type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> CBM <input type="checkbox"/> Injection <input type="checkbox"/> Disposal <input type="checkbox"/> Storage | Wellbore Conditioning: String Time / Volume / Rate / Material |
| Well Orientation <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached) | 26" Grcut (No Conditioning) |
| Drill Method(s) <input checked="" type="checkbox"/> Rotary - Air 3370' <input checked="" type="checkbox"/> Rotary - Mud 5006' <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other | 20" 5 min / 15 BBL / 3-5 BPM / Gel-Bar |
| Drilling Started 02/12/12 Surface Elev. 1168 ft. GW Depth 870 ft. | 13 3/8" Grcut (No Conditioning) |
| Drilling Complete 06/23/12 True Vertical Depth 3275 ft. Depth of DFGW 870 ft. | 9 5/8" 15 min / 70 BBL / 3-5 BPM / Gel |
| Date Well Completed 06/24/12 Total Measured Depth 5006 ft. DFGW/decided by 1 | 4 1/2" 5 min / 20 BBL / 3.5 BPM / SAPP |
| | 4 1/2" 5 min / 20 BBL / 3.5 BPM / Gel |

CEMENT

Cement returned on surface casing? Yes No *If No, provide depth to top of cement and method used to determine:*

Cement returned on coal protective casing? Yes No *If No, provide depth to top of cement and method used to determine:*

Cement returned on intermediate casing? Yes No *If No, provide depth to top of cement and method used to determine:*

| Casing String | Type/Class of Cement (Lead/Tail) | Slurry Temp F° | Amount of Cement (sks) (Lead/Tail/Total) | WOC Hrs | WT PPG | Yd/H3 /pk | Gas Migration Controls Used |
|--------------------------------------|----------------------------------|----------------|--|---------|--------|-----------|--|
| Conductor | CLA A, 3%cc 1/2 flake | 37 ° | 40 / 0 / 40 | 8 | 15.6 | 1.18 | Gas Block for intermediate string cement |
| Surface | CLA A, 3%cc 1/2 flake | 37 ° | 310 / 0 / 310 | 8 | 15.6 | 1.18 | |
| Coal Protective | CLA A, 3%cc 1/2 flake | 37 ° | 45 / 430 / 475 | 8 | 15.6 | 1.18 | |
| Intermediate | Gas Block | 40 ° | 680 / 0 / 680 | 8 | 15.6 | 1.29 | |
| Production | UFL | 76 ° | 1328 / 0 / 1328 | 8 | 14.3 | 1.29 | |
| If additional strings attach form(s) | | | Total | 2833 | | | |

CASING AND TUBING

| Hole Size | Pipe Size | Wt. #/ft. | Grade Casing / Tubing Type | Thread / Weld - New/Used | Amount In Well (ft.) | Hardware - Baskets / Packer / Centralizers (Total/String) | | | Date Run |
|-----------|-----------|-----------|----------------------------|--------------------------|----------------------|---|---------|-------|----------|
| | | | | | | Type | Size | Depth | |
| 28" | 26" | 77.26 | PE | - - N | 39 | N/A | N/A | N/A | 02/13/12 |
| 22" | 20" | 94.00 | J-55 | T - N | 214 | guide shoe | 20" | 214 | 02/14/12 |
| 17 1/2" | 13 3/8" | 54.50 | MC-50 | T - N | 640 | guide shoe | 13 3/8" | 640 | 02/16/12 |
| 12 3/8" | 9 5/8" | 40.00 | MC-40 | T - N | 2044 | guide shoe | 9 5/8" | 2044 | 02/21/12 |
| 8 1/2" | 4 1/2" | 11.60 | WT-80 | T - N | 4982 | float shoe | 4 1/2" | 4982 | 06/24/12 |

If any casing is welded, provide the name(s) of the welder(s):

PLUG-BACK/WELLBORE ALTERATION

| Fill Material & Plugs | Depth | | Date | Casing & Tubing | | |
|--|-------|------|----------|-----------------|--------|------|
| | From | To | | Size | Pulled | Left |
| Kick Plug - 438 sks - Kick Plug Cement | 2074 | 3370 | 02/24/12 | N/A | N/A | N/A |
| | | | | | | |

DEP, SOUTHWEST REGION
OIL & GAS

DEP, SOUTHWEST REGION
OIL & GAS

003-22203

LOG OF FORMATIONS

Well API#: 37-003-22205-00-01

(If you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Lithology | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------------|---------------|------------------|------------------|------------------|----------------------------------|----------------|
| Let Down | 0 | 5 | | | | Driller's Log |
| Shale | 5 | 35 | | | | |
| Sand | 35 | 46 | | | | |
| Shale | 46 | 90 | | | | |
| Red Rock | 90 | 120 | | | F 90 | |
| Sand / Shale | 120 | 250 | | | | |
| Shale | 250 | 300 | | | | |
| Coal | 300 | 304 | | | | |
| Sand / Shale | 304 | 400 | | | | |
| Shale | 400 | 450 | | | | |
| Sand / Shale | 450 | 520 | | | | |
| Coal | 520 | 525 | | | | |
| Sand / Shale | 525 | 600 | | | | |
| Open Mine | 600 | 610 | | | | |
| Sand / Shale | 610 | 774 | | | | |
| Coal | 774 | 778 | | | | |
| Sand / Shale | 778 | 930 | | | F 870 | |
| Sand | 930 | 1050 | | | | |
| Sand / Shale | 1050 | 1200 | | | B 1150 | |
| Sand | 1200 | 1450 | | | | |
| Sand / Shale | 1450 | 1600 | | | | |
| Sand | 1600 | 1830 | | | | |
| Shale | 1830 | 1900 | | | | |
| Sand / Shale | 1900 | 2065 | | | B 1890 | |
| Sand / Shale | 2065 | 2350 | | | B 1920 | |
| Red Rock | 2350 | 2450 | | | | |
| Shale | 2450 | 2500 | | | | |
| Sand | 2500 | 2600 | | | | |
| Sand / Shale | 2600 | 2750 | | | | |
| Sand | 2750 | 2900 | | | | |
| Sand / Shale | 2900 | 3370 | 3171 | 3171 | | |

JUL 11 2012

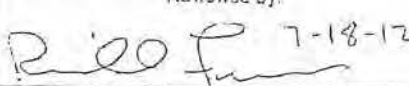
DEP. SOUTHWEST REGION
OIL & GAS

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

| Casing Source | Cementing Company | Hardware Supplier | Logging Company |
|--|---|--|---|
| Name McJunkin Redman Corporation | Name Universal Well Services, Inc. | Name Ken Miller Supply, Inc. | Name Weatherford International |
| Address 480 Geesey Road | Address 324 Meter St. | Address 5484 Routs 286 Hwy. E. | Address 124 Windy Ridge Lane |
| City - State - Zip Indiana PA 15701 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 | City - State - Zip Elderton PA 15736 |
| Phone (724)349-6823 | Phone (814)938-5327 | Phone (724)465-8875 | Phone (724)354-3090 |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Driller(s) | | Well Operator's Signature | | DEP USE ONLY | |
|---|----------|--------------------------------------|-----------|---|--|
| Name U.S. Energy | Rig 4 | Name Les Wilson Inc. | Rig 25 | Reviewed by: | |
| Address P.O. Box 237 | | Address P.O. Box 331 | |  7-18-12 | |
| City - State - Zip Central Valley PA 18249 | | City - State - Zip Carmi IL 62821 | | | |
| Phone (724)783-7624 | | Phone (618)382-4867 | | | |

003-22205 CF



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

Completion Report

| DEP USE ONLY | |
|--------------|---------------------|
| Site ID | Primary Facility ID |
| Client ID | Sub Facility ID |

| Well Information | | | | | | | |
|---|----------------------|------------------------------|----------------------------------|---|-------------------------------|---------------------|---------------------|
| Well Operator Penneco Oil Company | | DEP ID# 7674 | Well API # 37-003-22205-00-01 | | Well Farm Name Burton Unit | Well # 4H | |
| Address 6608 Route 22 | | | LAT - 40° 30' 48.0900" | NAD 83 | Project Number | | Serial # PB-1752 |
| City Deimont | | State PA | Zip Code 15626 | Municipality Plum | | County Allegheny | |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | | USGS 7.5 min. quadrangle map New Kensington East | | Section 7 | |
| Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report | | | | | | | |

| STIMULATION BASE FLUID | | | |
|--------------------------------------|---------------------------|-----------------------------|-------------------|
| List Water Management Plan Source(s) | Water Management Plan ID | Volume (Gallons) | |
| 1. Not Applicable | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| | DEP Biologist Review/Date | Total Gallons of Water Used | Water Recycled |
| Other Base Fluid(s) Used | | | Quantity and /UOM |
| 1. | | / | |
| 2. | | / | |
| Total Quantity all Fluid(s) | | | / |

| STIMULATION/PRODUCTION INFORMATION (WELL) | | | |
|--|---|--|--------------------------------|
| Radioactive tracers used? <input type="checkbox"/> | 24 Hr. Open-Flow (MCF/Day) / Date Still Testing / -- | 24 Hr. Shut-in Pressure / Date Still Testing / -- | Completion Date: 07/24/12 |
| Specify Tracer | | | |
| Well Products: <input checked="" type="checkbox"/> Gas Btu 1050 (Expected) | <input checked="" type="checkbox"/> Oil API G 39 (Expected) | <input type="checkbox"/> Condensate API G | <input type="checkbox"/> Other |
| <input type="checkbox"/> GOR Still Testing | | | |

| WELL SERVICE COMPANIES | | |
|--|---|--|
| Perforation Company | Frac Company | Plug Drill Out/Flow Back Company |
| Name Titan Wireline Services | Name Universal Well Services, Inc. | Name Multi Production Systems Inc. |
| Address 717 Pennsylvania 210 | Address 324 Meter St. | Address 314 Mill Run Drive |
| City - State - Zip Shelock PA 15774 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 |
| Phone (724)354-2629 | Phone (814)938-5327 | Phone (724)465-6663 |

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | |
|---|---------------|
| Well Operator's Signature | DEP USE ONLY |
| | Reviewed by: |
| Date: 8/8/12 | Date: 8-28-12 |
| Printed Name / Title: Marc Jacobs / Vice President | Comments: |

003-22205

Well API# 37-003-22205-00-01

STIMULATION FLUID ADDITIVES

Note: Information designated as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on the "Confidential Stimulation Fluid Additives" form.

| Trade Name | Supplier | Purpose | Ingredients | CAS # of Chemical Component | Max. Component % Mass in Additive | Chemical Component % Mass used in Total Base Fluid (Pg 1) | Comment |
|-------------------|------------------------------|-------------------------|--|-----------------------------|-----------------------------------|---|---------|
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Solvent Naptha (Petroleum), petroleum aromatic | 64742-94-5 | 65 - 100% | 0.069% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Poly(oxy- 1,2- ethanediyl), a(nonyphenyl)- w- hydroxy- phosphate | 51811-79-1 | 30 - 60% | 0.040% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Naphthalene | 91-20-3 | 3 - 7% | 0.004% | |
| CLA CHEK LP | Clearwater International LLC | Clay Control | Ethylene Glycol | 107-21-1 | 30 - 60% | 0.023% | |
| EC8116A | Nalco Company | Biocide | Dibromosetonitrile | 3252-43-5 | 1.0 - 5.0% | 0.000% | |
| EC8116A | Nalco Company | Biocide | 2,2-Dibromo-3-nitropropionamide | 10222-01-2 | 10.0 - 30.0% | 0.003% | |
| EC8116A | Nalco Company | Biocide | Polyethylene Glycol | 25322-68-3 | 30.0 - 60.0% | 0.007% | |
| Flomax 50 | CESI Chemical | Flow Control | Isopropanol | 67-63-0 | 1 - 15% | 0.009% | |
| Flomax 50 | CESI Chemical | Flow Control | Citrus Terpenes | 94296-47-4 | 1 - 15% | 0.000% | |
| Hydrochloric Acid | Niacet Corporation | Formation Breaker | Hydrochloric Acid | 7647-01-0 | 31 - 33% | 0.445% | |
| IRON STA II C | Clearwater International LLC | Iron Control Agent | Ethylene Glycol | 107-21-1 | 10 - 30% | 0.310% | |
| LEB 10X | Clearwater International LLC | Gel Breaker | Ethylene Glycol | 107-21-1 | 30 - 60% | 0.001% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Methanol | 67-56-1 | 30 - 60% | 0.023% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Isopropanol | 67-63-0 | 5.0 - 10.0% | 0.004% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Heavy Aromatic Naptha | 64742-94-5 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Polyethylene Glycol | 25322-68-3 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc | Flow Control | EO-C7-9-iso, C8-rich alcohols | 78330-19-5 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc | Flow Control | EO-C9-11-iso, C10-12h alcohols | 78330-20-8 | 1.0 - 5.0% | 0.002% | |
| NE-90 | Universal Well Services, Inc | Flow Control | 2-Ethylhexanol | 104-78-7 | 5.0 - 10.0% | 0.004% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Naphthalene | 91-20-3 | 0.1 - 1.0% | 0.000% | |
| Sand | Umin Corporation | Proppant | Crystalline Silica in the form of Quartz | 14808-80-7 | 87 - 99.9% | 6.274% | |
| SUPER SURF | Clearwater International LLC | Surface Tension Reducer | Methanol | 67-56-1 | 30 - 60% | 0.023% | |
| Unigel 5F | Clearwater International LLC | Gelling Agent | Guar Gum | N/A | >95% | 0.084% | |

Please insert additional copies of this page if additional rows are needed.

SEP 1 2013

Page 3 of 5

DEP. SOUTHWEST REGION

003-22205

Well API# 37 -003-22205-00-01

STIMULATION INFORMATION / STAGE

Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).

| Slg # | Stimulation Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Proppant Type | Proppant Mesh Size(s) |
|-------|------------------|---------------------|------------------------------|------------------------------|------------|---------------|-----------------------|
| 1 | 07/24/12 | 38.0 | 4,230 | 3,013 | 1,800 | White Sand | 20/40 |
| 2 | 07/24/12 | 40.0 | 4,137 | 3,760 | 1,900 | White Sand | 20/40 |
| 3 | 07/24/12 | 40.0 | 3,882 | 5,012 | 1,850 | White Sand | 20/40 |
| 4 | 07/24/12 | 40.0 | 3,926 | 5,060 | 2,000 | White Sand | 20/40 |
| 5 | 07/24/12 | 31.0 | 4,375 | 4,620 | 2,000 | White Sand | 20/40 |
| 6 | 07/24/12 | 23.0 | 4,600 | 5,060 | 1,950 | White Sand | 20/40 |
| 7 | 07/24/12 | 19.0 | 4,724 | 4,750 | 1,900 | White Sand | 20/40 |
| 8 | 07/25/12 | 40.0 | 3,660 | 5,310 | 1,950 | White Sand | 20/40 |
| 9 | 07/25/12 | 40.0 | 4,130 | 5,600 | 2,000 | White Sand | 20/40 |
| 10 | 07/25/12 | 40.0 | 3,552 | 5,610 | 1,950 | White Sand | 20/40 |
| 11 | 07/25/12 | 40.0 | 3,926 | 5,620 | 2,100 | White Sand | 20/40 |
| 12 | 07/25/12 | 40.0 | 3,691 | 6,000 | 2,100 | White Sand | 20/40 |
| 13 | 07/25/12 | 40.0 | 3,530 | 5,610 | 2,000 | White Sand | 20/40 |
| 14 | 07/25/12 | 40.0 | 4,370 | 5,620 | 2,000 | White Sand | 20/40 |
| 15 | 07/25/12 | 40.0 | 3,904 | 5,600 | 2,100 | White Sand | 20/40 |
| 16 | 07/25/12 | 40.0 | 3,505 | 5,460 | 1,900 | White Sand | 20/40 |
| 17 | | | | | | | |
| 18 | | | | | | | |
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| 39 | | | | | | | |
| 40 | | | | | | | |

AUG 13 2012

DLP SOUTHWEST REGION
DLP 5/6/12

003-22205


CONFIDENTIAL - STIMULATION FLUID ADDITIVES - CONFIDENTIAL

Note: Additives designated on the "Stimulation Fluid Additives" as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on this or similarly identified sheet as confidential to this report.

| Trade Name | Supplier | Purpose | Ingredients | CAS No. of Chemical Component | Maximum Component % by Mass in Additive | Chemical Component % Mass used in Total Base Fluid (Pg. 1) | Comment |
|------------|----------|---------|-------------|-------------------------------|---|--|---------|
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The Department will prevent disclosure of the designated confidential information to the extent permitted under the Right-to-know Law (65 P.S. §67.101-67.3103. Use additional pages as needed.

Contact information for person requesting confidentiality of above listed information:

| | |
|--------------------|--|
| Name/Title |  Signature |
| Address | |
| City - State - Zip | |
| Phone | |

AUG 1 8 2012

DEP SOUTHWEST REGION
OK 4 GAS

SEP 10 2012
DEP SOUTHWEST REGION

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

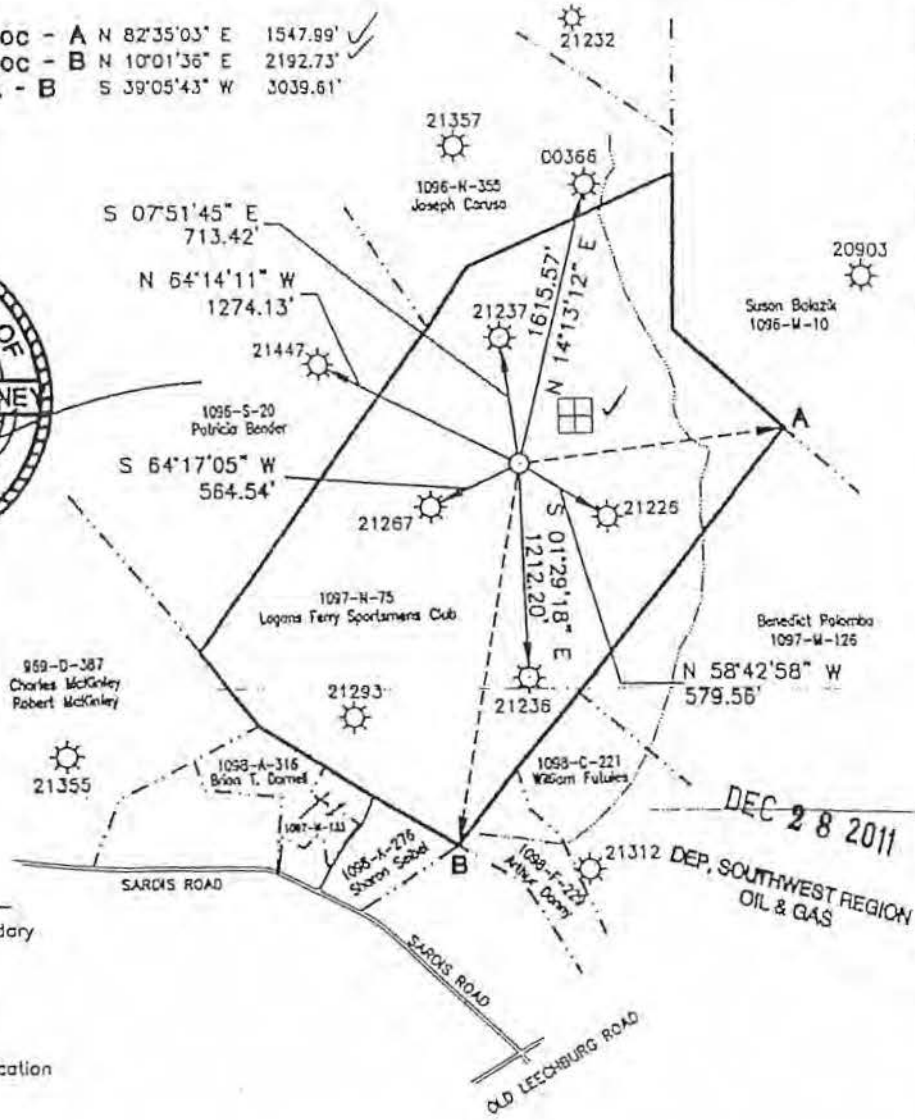
DEP: **NC-908188** TF
 USE: **003-22215** 1-18-12
 ONLY: Project #:

003-22215

☐ Denotes location of well on topo map.
 True Latitude: **NORTH**
 40° 31' 34.52"
 True Longitude: **WEST**
 79° 43' 36.08"

Well is located on topo map 5,614 feet south of latitude 40° 32' 30"

Loc - A N 82°35'03" E 1547.99' ✓
 Loc - B N 10°01'36" E 2192.73'
 A - B S 39°05'43" W 3039.61'



Well is located on topo map 5,101 feet west of longitude 79° 42' 30"

DEC 28 2011
 DEP, SOUTHWEST REGION
 OIL & GAS

- Legend**
- Lease Tract Boundary
 - - - Surface Tract
 - == Roads
 - - - - Streams/Water
 - ☐ Proposed Well Location
 - ☼ Existing Well
 - ☼ Plugged Well

| | | | | | |
|---|---|--|--|---|-----------------------------|
| Surveyor or Engineer: W.D. Mohney & Associates (724) 543-1023 | Phone #: | Day # | Date: December 16, 2011 | Scale: 1" = 1000' | Tract Acreage: 145 ± |
| Lat & Long Metadata | Method: GPS-Code Based Accuracy 10 ± ft | Datum: NAD 83 | Elevation Metadata | Method: PASDA LIDAR Accuracy 30 ± ft | Datum: NGVD29 |
| Applicant / Well Operator Name: Penneco Oil Company | Well (Form) Name: Logans Ferry Sportsman's Club | Well #: 6 | Serial #: PL-1801 | Survey Date: Various Dates | |
| Address: 6608 US Route 22, Delmont, PA. 15626 | County: Allegheny | Municipality: Plum Borough | Well Type: New Gas Well | Map Section: 7 Surface Elevation: 1085 ft | |
| Surface Landowner / Lessor: Logans Ferry Sportsman's Club | USGS 7 1/2" Quadrangle Map Name: New Kensington East, PA. - 1408 | Anticipated Total Depth ft: TWO 3800' | Target Formation(s): Speechley | | |
| Surface Owner or Water Purveyor/Approximate Course and Direction of Flow: NONE | | | Owner, Leases to, Operator of Well: Non-Cool Area | | |
| Name of Coal Seam: NONE | | | Name of Coal Seam: GOB - Upper Freeport Coal | | |

003-22215



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil & Gas Management Program

DEP USE ONLY
Application Tracking #
NC-908168

Proposed Alternate Method or Material for
Casing, Plugging, Venting or Equipping a Well

| | | |
|--------------------------------------|---------------------|--|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well Permit or Registration Number 003-22215-00 |
| Address 6608 Route 22 | | Well Form Name Logans Ferry Sportsman's Club |
| City Delmont | State PA | Zip Code 15626-2408 |
| Phone 724-468-8232 | Fax 724-468-8230 | Well # #6 |
| | | Serial # PL-1801 |
| | | County Allegheny |
| | | Municipality Plum Borough |

A proposed alternate method is subject to provisions in Section 211 of the Oil and Gas Act, Section 13 of the Coal and Gas Resource Coordination Act, and 25 PA Code §78.75 Alternate Methods. Attach proof of notification of coal operator(s).

Describe in reasonable detail using a written description and / or diagram:

1. the proposed alternate method or materials, and
2. the manner in which the alternative will satisfy the goals of the laws and regulations.

The purpose of this submission is to account for the proximity of the referenced well to the documented boundary of an abandoned deep mine and to offer an alternative casing scenario should the coal isolation segment of the well realize a mine void.

In the event that the construction of the above referenced well were interrupted by a mine void encounter rather than the anticipated stump or solid coal, the drilling contractor will continue drilling another 50 feet below the mine floor (ream if necessary), install the requisite isolation string of casing (basket set above mine ceiling), and cement using the balance and grout method.

DEC 28 2011

DEP, SOUTHWEST REGION
OIL & GAS

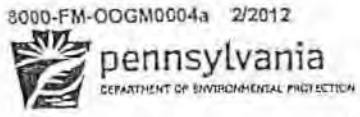
| | |
|--|--|
| Optional: Approval by Coal Owner or Operator | Signature of Applicant / Well Operator |
| Signature _____ Date _____ | Signature Date 12/27/11 |
| Print or Type Signer's Name and Title _____ | Print or Type Signer's Name and Title D. Marc Jacobs, Jr. Senior Vice President |

If optional approval is signed by coal owner or operator, the 15-day objection period may be waived.

| DEP USE ONLY | | |
|--------------------------------|---|-----------------|
| Approved by: (DEP Manager) | Conditions: <input checked="" type="checkbox"/> YES, See Attached <input type="checkbox"/> NO | Date 1/23/12 |

GEO COPY 003-22215

CF



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

| DEP USE ONLY | |
|--------------|-----------------|
| Site ID | Client Id |
| Client Id | Sub Facility Id |

Well Record

WELL INFORMATION

| | | | | |
|--------------------------------------|----------------------|---|---|---------------------|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well API # 37-003-22215-00 | Well Farm Name Logans Ferry Sportsmans Club | Well # 6 |
| Address 6608 Route 22 | | LAT 40°31' 34.5200" LCNG - 79°43' 36.0800" | Project Number | Serial # PL-1801 |
| City Delmont | State PA | Zip 15626-2408 | Municipality Plum | County Allegheny |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | USGS 7.5 min. quadrangle map New Kensington East | Section 7 |

Check the appropriate Submission: Original Well Record Amended Well Record

| | | |
|---------------------|--|---|
| Well Type | <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> CBM <input type="checkbox"/> Injection <input type="checkbox"/> Disposal <input type="checkbox"/> Storage | Wellbore Conditioning: |
| Well Orientation | <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached) | String 13 3/8" Time / Volume / Rate / Material GROUT (No Conditioning) |
| Drill Method(s) | <input checked="" type="checkbox"/> Rotary - Air 3410' <input type="checkbox"/> Rotary - Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other | 9 5/8" 10 min / 4.5 BBL / 3-5 BPM / Gel and Bariteal |
| Drilling Started | 04/01/12 Surface Elev. 1085 ft. GW Depth 545 ft. | 7" 5 min / 35 BBL / 3-5 BPM / Gel and Bariteal |
| Drilling Complete | 04/10/12 True Vertical Depth 3410 ft. Depth of DFGW 545 ft. | 4 1/2" 4 min / 35 BBL / 4 BPM / Gel |
| Date Well Completed | 04/10/12 Total Measured Depth 3410 ft. DFGW decided by 1 | |

CEMENT

Cement returned on surface casing? Yes No
 Cement returned on coal protective casing? Yes No
 Cement returned on intermediate casing? Yes No

| Casing String | Type/Class of Cement (Lead/Tail) | Slurry Temp F° | Amount of Cement (sks) (Lead/Tail/Total) | WOC lbs | WT PPG | Yield cu ft | Gas Migration Controls Used |
|--------------------------------------|----------------------------------|----------------|--|---------|--------|-------------|---|
| Conductor | CLA A, 3%cc 1/2" flake | 50 ° | 10 / 0 / 10 | 8 | 15.6 | 1.18 | Gas Block for coal protective string cement |
| Surface | CLA A, 3%cc 1/2" flake | 50 ° | 385 / 0 / 385 | 8 | 15.6 | 1.18 | |
| Coal Protective | Gas Block | 50 ° | 375 / 0 / 375 | 8 | 15.7 | 1.3 | |
| Intermediate | | | / / | | | | |
| Production | Unipro 171 | 50 ° | 51 / 0 / 51 | 8 | 13.6 | 1.71 | |
| If additional strings attach form(s) | | | Total | 821 | | | |

CASING AND TUBING

| Hole Size | Pipe Size | Wt. #/ft. | Grade Casing / Tubing Type | Thread / Weld - New / Used | Amount In Well (ft.) | Hardware - Baskets / Packer / Centralizers (Total/String) | Date Run | |
|-----------|-----------|-----------|----------------------------|----------------------------|----------------------|---|----------|-------|
| | | | | | | Type | Size | Depth |
| 17 1/2" | 13 3/8" | 37.00 | L/S R-3 | T - N | 74 | guide shoe | 13 3/8" | 74 |
| 12 3/8" | 9 5/8" | 26.00 | .250W R-3 | T - N | 640 | guide shoe | 9 5/8" | 640 |
| 8 7/8" | 7" | 19.00 | .250W R-3 | T - N | 2002 | guide shoe | 7" | 2002 |
| 6 1/4" | 4 1/2" | 10.50 | 65 Grade | T - N | 3317 | float shoe | 4 1/2" | 3317 |

If any casing is welded, provide the name(s) of the welder(s):

PLUG BACK WELLBORE ALTERATION

| Fill Material & Plugs | Depth | | Date | Casing & Tubing | | |
|------------------------------------|-------|----|------|-----------------|--------|------|
| | From | To | | Size | Pulled | Left |
| MAY 22 2012 | | | | | | |
| DEP, SOUTHWEST REGION OIL & GAS | | | | | | |

003-22215

LOG OF FORMATIONS

Well API#: 37-003-22215-00

(If you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Lithology | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------------|---------------|------------------|------------------|------------------|----------------------------------|----------------|
| Fill | 0 | 5 | | | | Driller's Log |
| Red Rock | 5 | 70 | | | | |
| Sand | 70 | 120 | | | | |
| Sandy Shale | 120 | 180 | | | | |
| Red Rock | 180 | 330 | | | | |
| Sandy Shale | 330 | 420 | | | | |
| Coal | 420 | 423 | | | F 545 | |
| Sand | 423 | 535 | | | | |
| Coal | 535 | 545 | | | | |
| Shale | 545 | 600 | | | | |
| Sand / Shale | 600 | 664 | | | | |
| Shale | 664 | 715 | | | | |
| Coal | 715 | 720 | | | | |
| Sand | 720 | 870 | | | | |
| Sand / Shale | 870 | 1170 | | | | |
| Sandy Shale | 1170 | 1620 | | | B 1200 | |
| Sand / Shale | 1620 | 2010 | | | B 1810 | |
| Sand | 2010 | 2400 | | | | |
| Sandy Shale | 2400 | 2700 | | | | |
| Sand / Sandy Shale | 2700 | 3300 | | | | |
| Shale | 3300 | 3410 | | | | |

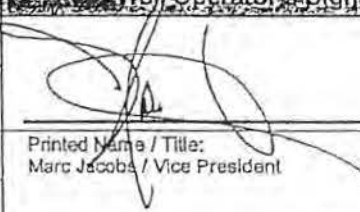
MAY 22 2012
DEPT. OF ENVIRONMENTAL & NATURAL RESOURCES
OIL & GAS

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved)

| Casing Source | Cementing Company | Hardware Supplier | Logging Company |
|--|---|--|---|
| Name McJunkin Redman Corporation | Name Universal Well Services, Inc. | Name Ken Miller Supply, Inc. | Name Weatherford International |
| Address 480 Geesey Road | Address 324 Meter St. | Address 5484 Route 286 Hwy. E. | Address 124 Windy Ridge Lane |
| City - State - Zip Indiana PA 15701 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 | City - State - Zip Elderton PA 15736 |
| Phone (724)349-6823 | Phone (814)938-5327 | Phone (724)465-8875 | Phone (724)354-3060 |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| Driller | Well Operator's Signature | DEPT. USE ONLY |
|---|--|----------------|
| Name U. S. Energy |  Printed Name / Title: Marc Jacobs / Vice President | Reviewed by: |
| Address P.O. Box 237 | | Comments: |
| City - State - Zip Rural Valley PA 16249 | | |
| Phone (724)783-7624 | | |
| Plg 4 | Date: 5/18/12 | |



GEO COPY

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

003-22215 CF

Completion Report

| DEP USE ONLY | |
|--------------|---------------------|
| Site ID | Primary Facility ID |
| Client ID | Sub Facility ID |

| Well Information | | | | | |
|---|----------------------|-------------------------------|---|---------------------|---------------------|
| Well Operator Penneco Oil Company | DEP ID# 7674 | Well API # 37-003-22215-00 | Well Farm Name Logans Ferry Sportsmans Club | Well # 6 | |
| Address 6608 Route 22 | | LAT - 40° 31' 34.5200" | NAD 83 | Project Number | Serial # PL-1801 |
| City Dalmont | State PA | Zip Code 15626 | Municipality Plum | County Allegheny | |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | USGS 7.5 min. quadrangle map New Kensington East | Section 7 | |
| Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report | | | | | |

| STIMULATION BASE FLUID | | | |
|--------------------------------------|--------------------------|---------------------------|-----------------------------|
| List Water Management Plan Source(s) | Water Management Plan ID | Volume (Gallons) | |
| 1. Not Applicable | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| | | DEP Biologist Review/Date | Total Gallons of Water Used |
| | | | Water Recycled |
| Other Base Fluid(s) Used | | | Quantity and UOM |
| 1. | | | / |
| 2. | | | / |
| Total Quantity all Fluid(s) | | | / |

| STIMULATION/PRODUCTION INFORMATION (WELL) | | | |
|--|--|--|--------------------------------|
| Radioactive tracers used? <input type="checkbox"/> | 24 Hr. Open-Flow (MCF/Day) / Date 119 MCFD / 05/02/12 | 24 Hr. Shut-In Pressure / Date 440 PSI / 05/02/12 | Completion Date: 05/02/12 |
| Specify Tracer | | | |
| Well Products: <input checked="" type="checkbox"/> Gas Btu 1050 (Expected) | <input type="checkbox"/> Oil API G | <input type="checkbox"/> Condensate API G | <input type="checkbox"/> Other |
| <input type="checkbox"/> GOR Still Testing | | | |

| WELL SERVICE COMPANIES | | |
|--|---|--|
| Perforation Company | Frac. Company | Plug/Drill Out/Flow Back Company |
| Name Titan Wireline Services | Name Universal Well Services, Inc. | Name Multi Production Systems Inc. |
| Address 717 Pennsylvania 210 | Address 324 Meter St | Address 314 Mill Run Drive |
| City - State - Zip Shelockta PA 15774 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 |
| Phone (724)354-2629 | Phone (814)938-5327 | Phone (724)465-6683 |

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | |
|---|--------------------------------|
| Well Operator's Signature | DEP USE ONLY |
| | Reviewed by: _____ Date: _____ |
| Printed Name / Title: Marc Jacobs / Vice President | Comments: _____ |
| Date: 5/18/12 | |

MAY 22 2012

DEP, SOUTHWEST REGION
OIL & GAS

003-22215

Well API# 37-003-22215-00

STIMULATION FLUID ADDITIVES

Note: Information designated as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on the "Confidential Stimulation Fluid Additives" form.

| Trade Name | Supplier | Product Function | Chemical Component | C.I.P.C. of Chemical Component | Max. Concentration % in Mixture | Chemical Component Mgmt 1500 in Total Base Fluid (Pg 1) % | Comments |
|-------------------|-------------------------------|-------------------------|--|--------------------------------|---------------------------------|---|---------------------------------|
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Solvent Naptha (Petroleum), petroleum aromatic | 84742-94-5 | 85 - 100% | 0.048% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Poly(oxy-1,2-ethanediy), a(nonylphenyl)- <i>n</i> -hydroxy-phosphate | 51811-79-1 | 30 - 60% | 0.026% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Naphthalene | 91-20-3 | 3 - 7% | 0.003% | |
| CLA CHEK LP | Clearwater International LLC | Clay Control | Ethylene Glycol | 107-21-1 | 30 - 80% | 0.026% | |
| Pomax 50 | CESI Chemical | Flow Control | Isopropanol | 67-63-0 | 1 - 15% | 0.008% | |
| Pomax 50 | CESI Chemical | Flow Control | Citrus Terpenes | 84266-47-4 | 1 - 15% | 0.000% | |
| Hydrochloric Acid | Niacel Corporation | Formation Breaker | Hydrochloric Acid | 7647-01-0 | 31 - 33% | 0.168% | |
| IRON STA II C | Clearwater International LLC | Iron Control Agent | Ethylene Glycol | 107-21-1 | 10 - 30% | 0.010% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Methanol | 67-58-1 | 30 - 60% | 0.098% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Isopropanol | 67-63-0 | 5.0 - 10.0% | 0.011% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Heavy Aromatic Naptha | 84742-94-5 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Polyethylene Glycol | 25322-68-3 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | EO-C7-9-Is, C8-rich alcohols | 78330-19-5 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | EO-C9-11-Is, C10-rich alcohols | 78330-20-6 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | 2-Ethylhexanol | 104-78-7 | 5.0 - 10.0% | 0.011% | |
| NE-90 | Universal Well Services, Inc. | Flow Control | Naphthalene | 91-20-3 | 0.1 - 1.0% | 0.001% | |
| Sand | Unimin Corporation | Proppant | Crystalline Silica in the form of Quartz | 14808-80-7 | 87 - 99.3% | 8.486% | |
| ST-50 | CESI Chemical | Friction Reducer | Hydrated Light Olivite | 64742-47-8 | 10 - 30% | 0.023% | |
| SUPER SURF | Clearwater International LLC | Surface Tension Reducer | Methanol | 67-56-1 | 30 - 60% | 0.029% | |
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| | | | | | | | DEP, SOUTHWEST REGION OIL & GAS |

Please insert additional copies of this page if additional rows are needed.

003-22215

Well API# 37 -003-22215-00

STIMULATION INFORMATION / STAGE

Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).

| Stg # | Stimulation Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Proppant Type | Proppant Mesh Size(s) |
|-------|------------------|---------------------|------------------------------|------------------------------|------------|---------------|-----------------------|
| 1 | 05/02/12 | 35.0 | 3,485 | 3,675 | 1,900 | White Sand | 20/40 |
| 2 | 05/02/12 | 26.0 | 2,475 | 3,730 | 1,850 | White Sand | 20/40 |
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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS MANAGEMENT

| DEP USE ONLY | |
|--------------|-----------------|
| Site ID | Client ID |
| Client ID | Sub Facility ID |

Well Record

| WELL INFORMATION | | | | | | | |
|--------------------------------------|----------------------|------------------------------|-------------------------------|---|--|---------------------|--|
| Well Operator Penneco Oil Company | | DEP ID# 7674 | Well API # 37-003-22215-00 | | Well Farm Name Logans Ferry Sportsmans Club | Well # 6 | |
| Address 6608 Route 22 | | LAT 40°31' 34.5200" | | NAD 83 | Project Number | Serial # PL-1801 | |
| City Delmont | | State PA | Zip 15626-2408 | | Municipality Plum | County Allegheny | |
| Phone (724)468-8232 | Fax (724)468-8230 | Email penneco@penneco.com | | USGS 7.5 min. quadrangle map New Kensington East | | Section 7 | |

Check the appropriate Submission: Original Well Record Amended Well Record

| | | | | | | | |
|---------------------|--|------------------------|--|-----------------|---------|--------|--|
| Well Type | <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Combination Oil & Gas <input type="checkbox"/> CBM <input type="checkbox"/> Injection <input type="checkbox"/> Disposal <input type="checkbox"/> Storage | Wellbore Conditioning: | | | | | |
| Well Orientation | <input checked="" type="checkbox"/> Vertical <input type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached) | String 13 3/8" | Time / Volume / Rate / Material Grout (No Conditioning) | | | | |
| Drill Method(s) | <input checked="" type="checkbox"/> Rotary - Air 3410' <input type="checkbox"/> Rotary - Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other | 9 5/8" | 10 min / 4.5 BBL / 3-5 BPM / Gal and Barocel | | | | |
| Drilling Started | 04/01/12 | Surface Elev. | 1085 ft. | GW Depth | 545 ft. | 7" | 5 min / 25 BBL / 3-5 BPM / Gal and Barocel |
| Drilling Complete | 04/10/12 | True Vertical Depth | 3410 ft. | Depth of DFGW | 545 ft. | 4 1/2" | 4 min / 35 BBL / 4 BPM / Gal |
| Date Well Completed | 04/10/12 | Total Measured Depth | 3410 ft. | DFGW decided by | 1 | | |

| CEMENT | | | |
|--|---|---|--|
| Cement returned on surface casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide depth to top of cement and method used to determine: | |
| Cement returned on coal protective casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide depth to top of cement and method used to determine: <input type="checkbox"/> NA | |
| Cement returned on intermediate casing? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | If No, provide depth to top of cement and method used to determine: <input type="checkbox"/> NA | |

| Casing String | Type/Class of Cement (Lead/Tail) | Slurry Temp F* | Amount of Cement (sks) (Lead/Tail/Total) | WOC hrs | Wt. PPG | Yield (ft/sk) | Gas Migration Controls Used |
|--------------------------------------|----------------------------------|----------------|--|---------|---------|---------------|---|
| Conductor | CLAA, 3%cc 1/2" flake | 50 ° | 10 / 0 / 10 | 8 | 15.8 | 1.18 | Gas Block for coal protective string cement |
| Surface | CLAA, 3%cc 1/2" flake | 50 ° | 385 / 0 / 385 | 8 | 15.8 | 1.18 | |
| Coal Protective | Gas Block | 50 ° | 375 / 0 / 375 | 8 | 15.7 | 1.3 | |
| Intermediate | | | / / | | | | |
| Production | Unipro 171 | 50 ° | 51 / 0 / 51 | 8 | 13.8 | 1.71 | |
| If additional strings attach form(s) | | | Total | 821 | | | |

| CASING AND TUBING | | | | | | | |
|-------------------|-----------|-----------|----------------------------|---------------------------|----------------------|---|----------|
| Hole Size | Pipe Size | Wt. #/ft. | Grade Casing / Tubing Type | Thread / Weld - New/ Used | Amount In Well (ft.) | Hardware - Baskets / Packer / Centralizers (Total/String) | Date Run |
| 17 1/2" | 13 3/8" | 37.00 | L/S R-3 | T - N | 74 | guide shoe Type: 13 3/8" Size: 74 Depth: 04/01/12 | 04/01/12 |
| 12 3/8" | 9 5/8" | 26.00 | .250W R-3 | T - N | 640 | guide shoe Type: 9 5/8" Size: 640 Depth: 04/02/12 | 04/02/12 |
| 8 7/8" | 7" | 19.00 | .250W R-3 | T - N | 2002 | guide shoe Type: 7" Size: 2002 Depth: 04/05/12 | 04/05/12 |
| 6 1/4" | 4 1/2" | 10.50 | 65 Grade | T - N | 3317 | float shoe Type: 4 1/2" Size: 3317 Depth: 04/10/12 | 04/10/12 |

If any casing is welded, provide the name(s) of the welder(s):

| PLUG-BACK/WELLBORE ALTERATION | | | | | | |
|---------------------------------|-------|----|------|-----------------|--------|------|
| Fill Material & Plugs | Depth | | Date | Casing & Tubing | | |
| | From | To | | Size | Pulled | Left |
| MAY 22 2012 | | | | | | |
| DEP, SOUTHWEST REGION OIL & GAS | | | | | | |
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JUN 17 2012
DEP, SOUTHWEST REGION OIL & GAS

003-22215

LOG OF FORMATIONS

Well API#: 37-003-22215-00

(if you will need more space than this page, please photocopy the blank form before filling it in.)

| Formation Name or Lithology | Top (feet) | Bottom (feet) | Gas at (feet) | Oil at (feet) | Water at (fresh / brine; ft.) | Source of Data |
|--------------------------------|---------------|------------------|------------------|------------------|----------------------------------|----------------|
| Fill | 0 | 5 | | | | Driller's Log |
| Red Rock | 5 | 70 | | | | |
| Sand | 70 | 120 | | | | |
| Sandy Shale | 120 | 180 | | | | |
| Red Rock | 180 | 330 | | | | |
| Sandy Shale | 330 | 420 | | | | |
| Coal | 420 | 423 | | | F 545 | |
| Sand | 423 | 535 | | | | |
| Coal | 535 | 545 | | | | |
| Shale | 545 | 600 | | | | |
| Sand / Shale | 600 | 664 | | | | |
| Shale | 664 | 715 | | | | |
| Coal | 715 | 720 | | | | |
| Sand | 720 | 870 | | | | |
| Sand / Shale | 870 | 1170 | | | | |
| Sandy Shale | 1170 | 1620 | | | B 1200 | |
| Sand / Shale | 1620 | 2010 | | | B 1810 | |
| Sand | 2010 | 2400 | | | | |
| Sandy Shale | 2400 | 2700 | | | | |
| Sand / Sandy Shale | 2700 | 3300 | | | | |
| Shale | 3300 | 3410 | | | | |

JUN 11 2012
DEP. SOUTHWEST REGION
OIL & GAS

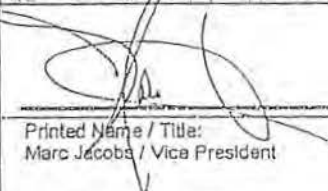

MAY 29 2012
DEP. SOUTHWEST REGION
OIL & GAS

If no show of oil, gas or water, explain why:

WELL SERVICE COMPANIES (Provide the name, address, and telephone number of all well service companies involved.)

| Casing Source | Cementing Company | Hardware Supplier | Logging Company |
|--|---|--|---|
| Name McJunkin Redman Corporation | Name Universal Well Services, Inc. | Name Ken Miller Supply, Inc. | Name Weatherford International |
| Address 480 Geesey Road | Address 324 Meter St. | Address 5484 Route 286 Hwy. E. | Address 124 Windy Ridge Lane |
| City - State - Zip Indiana PA 15701 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 | City - State - Zip Elderton PA 15736 |
| Phone (724)349-8823 | Phone (814)938-5327 | Phone (724)465-8875 | Phone (724)354-3090 |

I do hereby certify to the best of my knowledge, information and belief that the well identified on this Well Record has been properly cased and cemented in accordance with the requirements of 25 Pa. Code Chapter 78 and any conditions contained in the permit for this well. In addition, I do hereby certify that any casing which is attached to a blow-out preventer with a pressure rating greater than 3,000 psi has passed a pressure test in accordance with 25 Pa. Code §78.84(f). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | | | | | | | |
|---|----------|--|--|------------------|--|---|--|
| Driller | | Well Operator's Signature | | DEP-USE ONLY | | | |
| Name U. S. Energy | Rtg 4 |  Printed Name / Title: Marc Jacobs / Vice President | | Reviewed by: | | | |
| Address P.O. Box 237 | | | | Date: 5/18/12 | |  Comments: | |
| City - State - Zip Central Valley PA 16249 | | | | | | | |
| Phone (724)783-7624 | | | | | | | |



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

Completion Report

| DEP USE ONLY | |
|--------------|---------------------|
| Site ID | Primary Facility ID |
| Client ID | Sub Facility ID |

| Well Information | | | | | |
|---|----------------------|---|---|---------------------|---------------------|
| Well Operator Pennaco Oil Company | DEP ID# 7874 | Well API # 37-003-22215-00 | Well Farm Name Logans Ferry Sportsmans Club | Well # 6 | |
| Address 8608 Route 22 | | LAT - 40° 31' 34.5200" LONG - 79° 43' 36.0800" | NAD 83 | Project Number | Serial # PL-1801 |
| City Delmont | State PA | Zip Code 15626 | Municipality Plum | County Allegheny | |
| Phone (724)468-8232 | Fax (724)468-8230 | Email pennaco@pennaco.com | USGS 7.5 min. quadrangle map New Kensington East | Section 7 | |
| Check the appropriate submission: <input checked="" type="checkbox"/> Original Completion Report <input type="checkbox"/> Amended Completion Report | | | | | |

| STIMULATION BASE FLUID | | | |
|--------------------------------------|---------------------------|-----------------------------|----------------|
| List Water Management Plan Source(s) | Water Management Plan ID | Volume (Gallons) | |
| 1. Not Applicable | | | |
| 2. | | | |
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| 4. | | | |
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| 6. | | | |
| | DEP Biologist Review/Date | Total Gallons of Water Used | Water Recycled |
| Other Base Fluid(s) Used | | Quantity and UOM | |
| 1. | | / | |
| 2. | | / | |
| Total Quantity all Fluid(s) | | / | |

| STIMULATION/PRODUCTION INFORMATION (WELL) | | | |
|--|--|--|---|
| Radioactive tracers used? Specify Tracer | 24 Hr. Open-Flow (MCF/Day) / Date 119 MCFD / 05/02/12 | 24 Hr. Shut-in Pressure / Date 440 PSI / 05/02/12 | Completion Date: 05/02/12 |
| Well Products: <input checked="" type="checkbox"/> Gas Btu 1050 (Expected) | <input type="checkbox"/> Oil API G | <input type="checkbox"/> Condensate API G | <input type="checkbox"/> Other <input type="checkbox"/> GOR Still Testing |

| WELL SERVICE COMPANIES | | |
|--|---|--|
| Perforation Company | Frac Company | Plug-Drill Out/Flow Back Company |
| Name Titan Wireline Services | Name Universal Well Services, Inc. | Name Multi Production Systems Inc. |
| Address 717 Pennsylvania 210 | Address 324 Meter St. | Address 314 Mill Run Drive |
| City - State - Zip Shelock PA 15774 | City - State - Zip Punxsutawney PA 15767 | City - State - Zip Indiana PA 15701 |
| Phone (724)354-2629 | Phone (814)938-5327 | Phone (724)465-6663 |

I do hereby certify to the best of my knowledge, information and belief that the information contained on this Completion Report is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | |
|---|----------------------------|
| Well Operator's Signature | DEP USE ONLY |
| | Reviewed by: Date: 6-6-12 |
| Printed Name / Title: Marc Jacobs / Vice President | Date: 5/18/12 Comments: |

JUN 11 2012

MAY 22 2012

003-22215

Well API# 37-003-22215-00

STIMULATION FLUID ADDITIVES

Note: Information designated as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on the "Confidential Stimulation Fluid Additives" form.

| Trade Name | Supplier | Purpose | Ingredients | CAS # of Chemical Component | Max. Component % Mass in Additive | Chemical Component % Mass Used in Total Base Fluid (Pg 1) | Comment |
|-------------------|------------------------------|-------------------------|---|-----------------------------|-----------------------------------|---|---------|
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Solvent Naphtha (Petroleum), petroleum aromatic | 64742-94-5 | 65 - 100% | 0.048% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Poly(oxy-1,2-ethanediy), a(nonylphenyl)-w-hydroxy phosphate | 51811-79-1 | 30 - 60% | 0.028% | |
| ALPHA 3385 | Clearwater International LLC | Corrosion Inhibitor | Naphthalene | 91-20-3 | 3 - 7% | 0.003% | |
| CLA CHECK LP | Clearwater International LLC | Clay Control | Ethylene Glycol | 107-21-1 | 30 - 60% | 0.028% | |
| Flomax 50 | CESI Chemical | Flow Control | Isopropanol | 67-63-0 | 1 - 15% | 0.008% | |
| Flomax 50 | CESI Chemical | Flow Control | Citrus Terpenes | 94268-47-4 | 1 - 15% | 0.000% | |
| Hydrochloric Acid | Niacet Corporation | Formation Breaker | Hydrochloric Acid | 7647-01-0 | 31 - 33% | 0.186% | |
| IRON STA II C | Clearwater International LLC | Iron Control Agent | Ethylene Glycol | 107-21-1 | 10 - 30% | 0.010% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Methanol | 67-56-1 | 30 - 60% | 0.068% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Isopropanol | 67-63-0 | 5.0 - 10.0% | 0.011% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Heavy Aromatic Naphtha | 64742-94-5 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Polyethylene Glycol | 25322-89-3 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc | Flow Control | EO-C7-9-iso, C8-rich alcohols | 78330-19-5 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc | Flow Control | EO-C8-11-iso, C10-rich alcohols | 78330-20-8 | 1.0 - 5.0% | 0.005% | |
| NE-90 | Universal Well Services, Inc | Flow Control | 2-Ethylhexanol | 104-76-7 | 5.0 - 10.0% | 0.011% | |
| NE-90 | Universal Well Services, Inc | Flow Control | Naphthalene | 91-20-3 | 0.1 - 1.0% | 0.001% | |
| Sand | Unimin Corporation | Proppant | Crystalline Silica in the form of Quartz | 14808-80-7 | 87 - 99.3% | 8.488% | |
| ST-20 | CESI Chemical | Friction Reducer | Hydrotreated Light Distillate | 64742-47-8 | 10 - 30% | 0.023% | |
| SUPER SURF | Clearwater International LLC | Surface Tension Reducer | Methanol | 67-56-1 | 30 - 60% | 0.029% | |
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DEP. SOUTHWEST REGION OIL & GAS

DEP. SOUTHWEST REGION OIL & GAS

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003-22215

Well API# 37 -003-22215-00

STIMULATION INFORMATION / STAGE

Complete a separate record for each stimulation stage. (Please Insert additional lines for additional stages or additional pages as applicable).

| Stg # | Stimulation Date | Ave Pump Rate (BPM) | Ave Treatment Pressure (PSI) | Max Breakdown Pressure (PSI) | ISIP (PSI) | Proppant Type | Proppant Mesh Size(s) |
|-------|------------------|---------------------|------------------------------|------------------------------|------------|---------------|-----------------------|
| 1 | 05/02/12 | 35.0 | 3,485 | 3,675 | 1,900 | White Sand | 20/40 |
| 2 | 05/02/12 | 26.0 | 2,475 | 3,730 | 1,850 | White Sand | 20/40 |
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JUN 11 2012
 DEP. SOUTHWEST REGION
 OIL & GAS

MAY 22 2012
 DEP. SOUTHWEST REGION
 OIL & GAS

003-22215

CONFIDENTIAL - STIMULATION FLUID ADDITIVES - CONFIDENTIAL

Note: Additives designated on the "Stimulation Fluid Additives" as Trade Secret or Confidential proprietary information must be clearly identified as such and should be submitted on this or similarly identified sheet as confidential to this report.

| Trade Name | Supplier | Purpose | Ingredients | CAS No. of Chemical Component | Maximum Component % by Mass in Additive | Chemical Component % Mass used in Total Base Fluid (Pg. 1) | Comment |
|------------|----------|---------|-------------|-------------------------------|---|--|---------|
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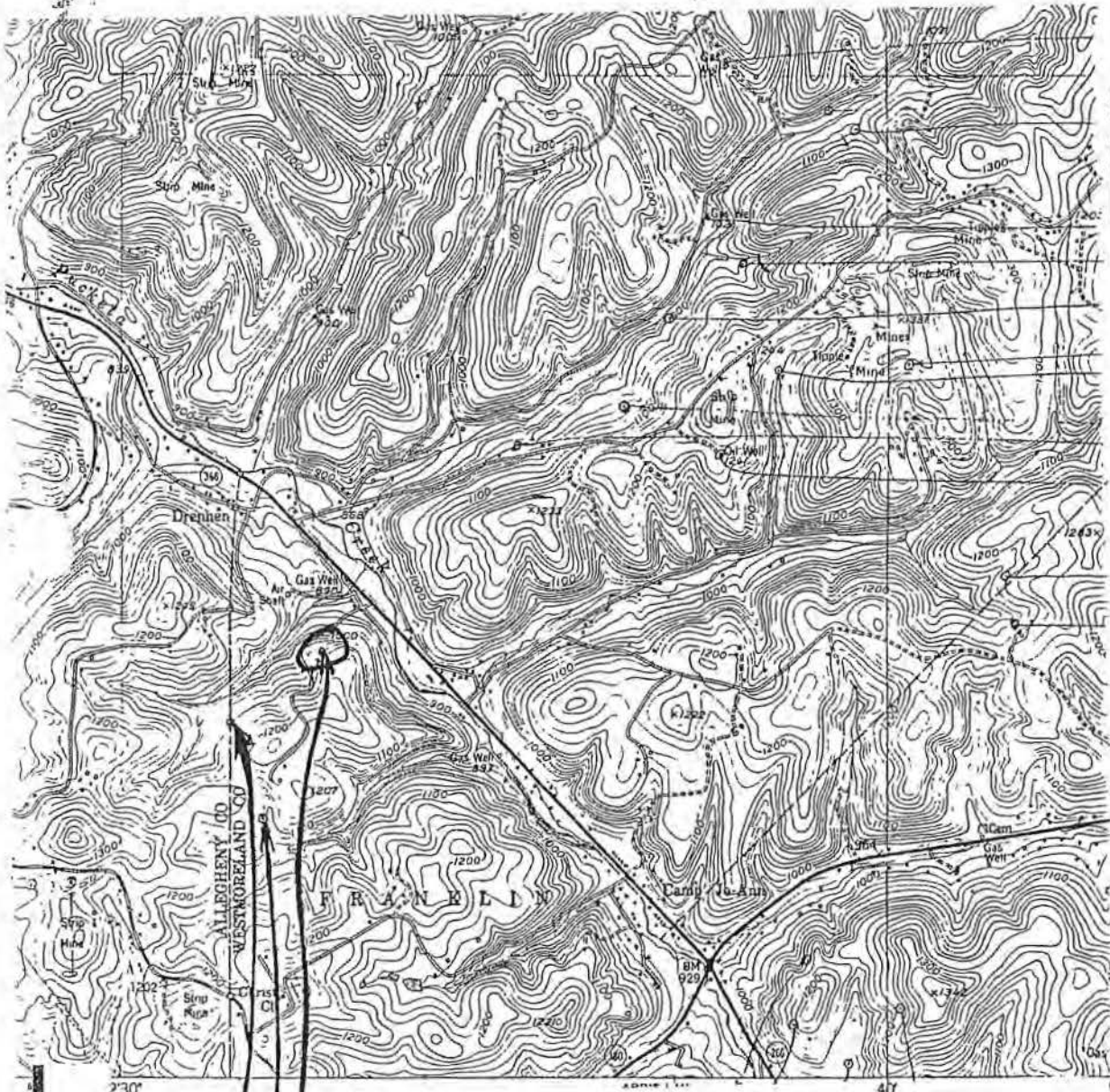
The Department will prevent disclosure of the designated confidential information to the extent permitted under the Right-to-know Law (65 P.S. §67.101-67.3103. Use additional pages as needed.

Contact Information for person requesting confidentiality of above listed information:

| | |
|-------------------|-----------|
| Name/Title | |
| Address | |
| City - State- Zip | |
| Phone | Signature |

MAY 22 2012
 JUN 11 2012
 DEP. SOUTHWEST REGION OIL & GAS
 DEP. SOUTHWEST REGION OIL & GAS

8700 13
8500 W



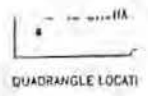
129-00136

Frank Beighley #2-134 A
Frank Beighley #1-134 A
Lissy Hall #2-95 A

FRANKLIN TWP.
NEW KENSINGTON EAST
7.5' QUAD.

129-00136

U.S. GEOLOGICAL SURVEY
NATIONAL CENTER FOR
GEOLOGICAL INFORMATION
WASHINGTON, D.C. 20242
MAPS AVAILABLE ON REQUEST



To be used for well(s) not permitted or issued drilling file numbers under Act 225, The Pennsylvania Gas Operations, Well-Drilling, Petroleum and Coal Mining Act. Supply all available information.

129-00136

T. W. Phillips Gas & Oil Co.
 Operator Name
 83 N 131st St
 Address
 Butler, Pa 16001
 412-287-2751
 Telephone #

Agent _____ Signature _____
 Address _____
 Telephone # _____

Project # _____
 If previously assigned by Dept
 County WESTMORELAND
 129

DEPT USE ONLY
 Code
 10-8-85

8700' S 40° 32' 30"
 8580' W 79° 40' 00"
 (N)
 New Kensington East
 7 1/2 qnts
 (8)

Pine Run Field

| For Department Use Only | | Municipality | Farm Name | Well # | Serial # Optional | Date Drilled | Type Well | T.D. | Casing Record Size (diam.) Length (ft) | Type and amount of cement | Packers Size/Type/Setting/Length | Producing Horizons |
|-------------------------|-------|--------------------|---------------------|--------|-------------------|--------------|-----------|-------|--|---------------------------|----------------------------------|--|
| 129 | 00134 | Upper Burrell Twp. | W.J. Bescom 63 A | 1 | | 1928 | Gas | 3825' | 10"-21' & 8 1/2"-195' 6 1/2" Pulled & 4-3/4"-975' 3" 3825' | | 3" Anchor 3145' | 3725'-3745' |
| " | 00135 | Upper Burrell Twp. | J.J. Becker 86 A | 1 | | 1920 | Gas | 2491' | 10"-40' & 6 1/2" Pulled 4-7/8" 2141' 3" 2184' | | 3" Wall 2184' | 2182'-2213' |
| " | 00136 | Franklin Township | Lizzie Hall 95 A | 2 | | 1918 | Gas | 3824' | 8 1/2"-237' & 6 1/2"-940' 4-3/4" 1964' 3" 3824' | | 3" Anchor 2310' | 3050'-3062' 3125'-3168' 3724'-3740' |
| " | 00137 | Upper Burrell Twp. | J. P. Hamilton 81A | 1 | | 1922 | Gas | 3820' | 8 1/2"-200' & 6 1/2" Pulled 4-3/4" 1975' 3" 3820' | | 3" Anchor 2125' | 3035'-3045' 3110'-3155' 3708'-3730' |
| " | 00138 | Upper Burrell Twp. | J.P. Hamilton 81 A | 2 | | 1923 | Gas | 3770' | 8 1/2"-150' & 6 1/2" Pulled 4-3/4" 1885' 3" 3770' | | 3" Anchor 1930' | 3040'-3088' 3230'-3235' 3630'-3640' 3650'-3665' |
| " | 00139 | Upper Burrell Twp. | A.T. Miller 90 A | 1 | | 1915 | Gas | 3753' | 6 1/2" 775' 4-3/4" 1766' 3" 3753' | | 3" Anchor 2145' | 2200'-2240' 3660'-3674' |
| " | 00140 | Upper Burrell Twp. | J. McCrady, Sr 84 A | 1 | | 1917 | Gas | 3976' | 6 1/2" Pulled 4-3/4" 2105' 3" 3976' | | 3" Anchor 2345' | 2435'-2485' 3190'-3205' 3875'-3890' |

Attachments Needed:

- 7 1/2 minute topographic map or other description to enable the Department to find the well site on the ground
- Driller's log (if available)
- Proof of bond or blanket bond
- Alternate fees in lieu of bond
- Registration fee of \$15 per well or \$250 for blanket registration on well registrations submitted simultaneously for same project.

The registration number issued pursuant to this registration form shall be installed on the well in a legible, conspicuous and permanent manner within 60 days of issuance.

129-00136
 WES-00136

DRILLERS RECORD 129-00136

Well No. 2 2012 Mr. Lizzie Hall Farm of 95 acres in Burrell Twp. Westmoreland County.
 Mon. North by E. A. Smith crosses Mrs. Baxter Walker East by Baxter Walker
 th by Francis Beighley West by John Hamilton
 well is located about 350 feet from the South line and about 300 feet from the West line of the farm
 d for the J. W. Phillips Oil Co. Company and completed in the month of October 1918
 d with 237 feet of 8 1/2 inch casing set in on packer
 Cased with 1964 feet of 4 3/4 inch casing set in on packer
 Coal veins 47.5 - 48.2 - 7.7 ft. Location card filed in Franklin Twp
 Well is located in " " " "
 Limestone 7.50 - 7.60 - 1.0 ft.

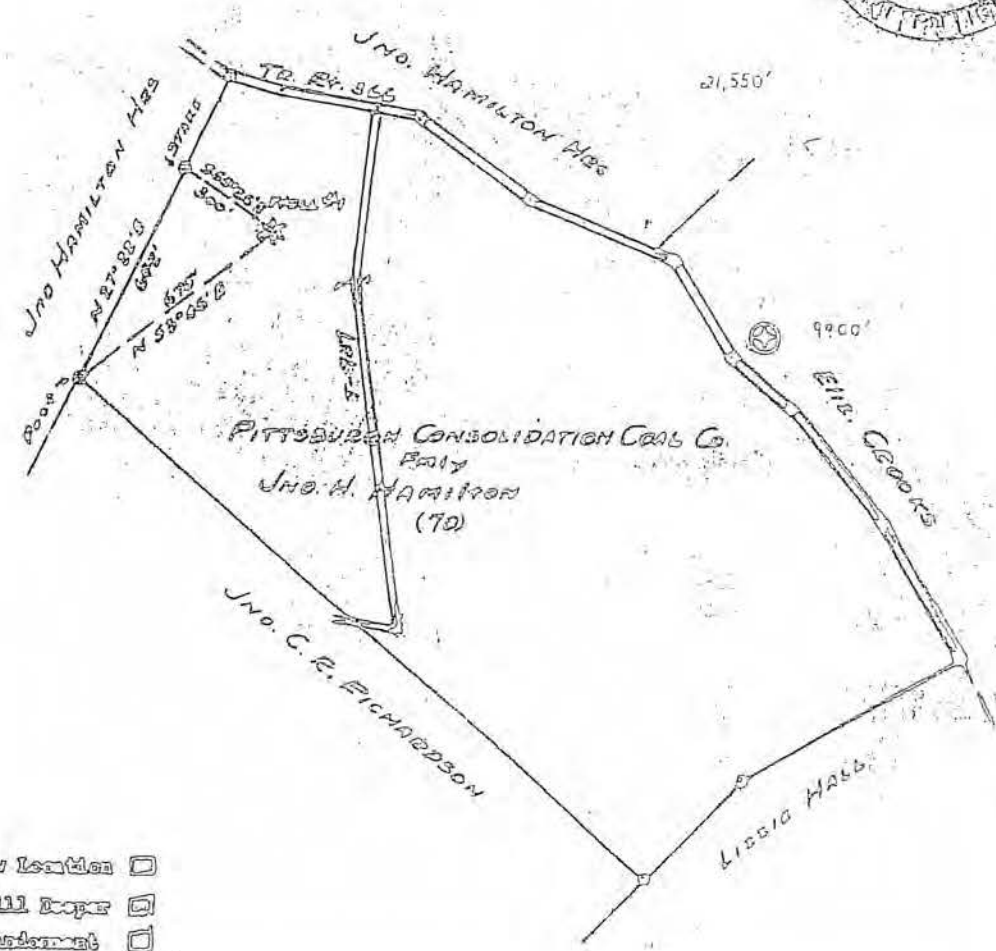
129-00136

| Kind of formation Sand or Slate, etc. | Top | Bottom | Thick-ness | Dist. from top of H.P | If Sand give name | Description | If it contains gas, oil or water, state quantity and where in the sand found. |
|---------------------------------------|------|--------|------------|-----------------------|---------------------|-------------|---|
| Sand | 800 | 860 | 60 | | 60 ft. | | |
| " | 877 | 935 | 58 | | 40 ft. | | |
| " | 1025 | 1140 | 115 | | 70 ft. | | |
| " | 1725 | 1830 | 105 | | Gas | White | Water at 1740. |
| " | 1850 | 1964 | 114 | | 150 ft. | " | Gas at 1899 |
| " | 1985 | 2010 | 25 | | 30 ft. | " | |
| " | 2100 | 2130 | 30 | | Boulder | | |
| " | 2150 | 2175 | 25 | | Third | | |
| " | 2210 | 2220 | 10 | | Fourth | | |
| " | 2252 | 2340 | 88 | | Fifth | | |
| " | 3050 | 3062 | 12 | | Speechley | | Gas at 3050 Light |
| " | 3125 | 3168 | 43 | | Speechley | | Gas at 3131, 3141 and 3145 |
| " | 3427 | 3444 | 17 | | Sheffield Chocolate | | |
| " | 3724 | 3740 | 16 | | Bradford | | Gas at 3724 to 3728 blew drillings up 50' |

Remarks Shot with 60gts Oct 18, 1918. 180⁵⁰

The above record was copied by me until it had been O. K'd or approved on the 20 day of Nov 1918
 by Supt. R. B. [Signature]

129-20294
129-20294



- Well Location
- Well Bore
- Abandonment
- Re-drill

Company R. L. PHILLIPS GAS & OIL COMPANY
 Address 205 N. Main St., Butler, Pa.
 Mine Pittsburgh Consolidation Coal Co. Jno. H. Hamilton
 Tract 1 Acre 70 Lease No. 1
 Well (Face) No. 1 Co. Serial No. _____
 Angle of Deviation, if any _____
 Elevation 940' Quadrangle Verona
 County Westmoreland Township Franklin
 Engineer Myra Boyer
 Engineer's Registration No. 703151
 File No. _____ Drawing No. _____
 Date Dec. 15, 1961 Scale 1"=400'

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF MINES
 Oil and Gas Division
 HARRISBURG
 WELL LOCATION MAP
 137-80854
 Dept. File No. MRS-201-B
 ⊕ Denotes Position of Well on United States Topographic Map.
 Scale 1" = 400'
 WORKABLE COAL SEAMS TO BE Mined
 Name of Seam
 All None None
None

129-20294

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MINES AND GENERAL INDUSTRIES
OIL AND GAS DIVISION

68°00'54"00" N 79°40'00" W
98.00' W 79°40'00" W
(8) ✓

NEW KENSINGTON EAST

7 1/2' LOCATION

QUADRANGLE: ~~Map 72~~ 72

72' E 70' 22' 0" S 40' 35"

PERMIT NO. ~~129-20294~~ 129-20294

MAP REFERENCE:

NEW KENSINGTON EAST (H)

KIND OF WELL: Gas
(Oil, Gas, Other)

WELL RECORD

| COMPANY: | Size of Casing and Tubing | Used in Drilling | Left in Well | Packers: Type, Size and Depth |
|---|---------------------------|------------------|--------------|--|
| T. W. Phillips Bro and Oil Company | 8-3/4" | 222' | 222' | 6-3/4" x 2" Anchor |
| ADDRESS: 205 E. Main Street, Butler, Pa. | | | | |
| Fgh. Consolidation Coal Co. | 4-9/16" | 184.0' | 184.0' | at 3605' |
| FARM: Formerly John H. Hamilton ACRE: 70 | | | | |
| WELL (FARM) NO. 2 CO. SERIAL NO. | 3" | 2035' | 2035' | |
| ELEVATION: 940' LEASE: | 2" | 3642' | 3642' | |
| TOWNSHIP: <u>Franklin</u> COUNTY: <u>Westmoreland</u> | | | | |
| DRILLING COMMENCED: 1-8-1962 | | | | |
| DRILLING COMPLETED: 1-19-1962 | | | | |
| PRODUCTION: <u>Oil, Gas, Water</u> | | | | PERFORATIONS AT: |
| ROCK PRESSURE: 2264 psig 24 hrs. | | | | 3642' - 3600' |
| WELL TREATMENT: (Shooting, Acidizing, Fracturing Etc.) <u>Hydrofractured</u> | | | | |
| | | | | CEMENTING PERMITS (Steel Pipe, Depth, No., Date, Etc.) |
| | | | | 2", 3605' - 3516', 10 Bags Cement, 1-23-1962 |
| RESULTS AFTER TREATMENT: <u>Open Flow</u> 175,000 Cu. Ft. | | | | |
| ROCK PRESSURE AFTER TREATMENT: 2700 - 24 Hrs. | | | | |

REMARKS:

Drilled 1917

| FORMATION | DEPTH | LOGGING | GAS AT | OIL AT | WATER AT (Fresh or Salt Water) | REMARKS |
|-------------|-------|---------|--------|--------|--------------------------------|---------|
| Sand | 865 | 935 | | | | |
| " | 1640 | 1720 | | | | |
| " | 1740 | 1840 | | | | |
| " | 1890 | 1910 | | | | |
| " | 1965 | 1995 | | | | |
| " | 2080 | 2111 | | | | |
| " | 2145 | 2193 | 2172 | | | |
| " | 2925 | 2980 | | | | |
| " | 3518 | 3642 | 3620 | | | |
| Water Depth | | 3542' | | | | |

