

003-21254

PS 2

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Fill	0	15				Driller's Log
Shale and Sand	15	48				
Shale and Sand	48	105			1" @ 60'	
Sand and Shale	105	270			3" @ 215'	
Coal	270	273				
Sand and Shale	273	380			3 1/2" @ 320'	
Mine	380	385				
Sand and Shale	385	428				
Sand and Shale	428	970			1" @ 725'	
Shale and Sand	970	1280				
Sand and Shale	1280	1670			3" @ 1630'	
Sand and Shale	1670	1785			2" @ 1650'	
Sand and Shale	1785	1900				
Sand, Red Rock & Shale	1900	2470				
Shale and Sand	2470	3100				
Sand and Shale	3100	3750				
Sand and Shale	3750	4110				
T.D.	4110					

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PENNECO ENERGY CORPORATION
 BY: _____ Vice President _____ 11-20-90
 Operator's Signature Title Date

FOR OFFICIAL USE ONLY

Reviewed By _____ Date _____
 Comments _____

GEO COPY

ER-CO-2, REV. 6/86

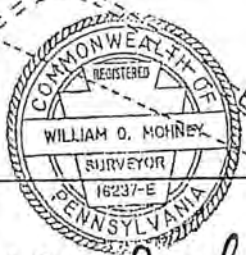
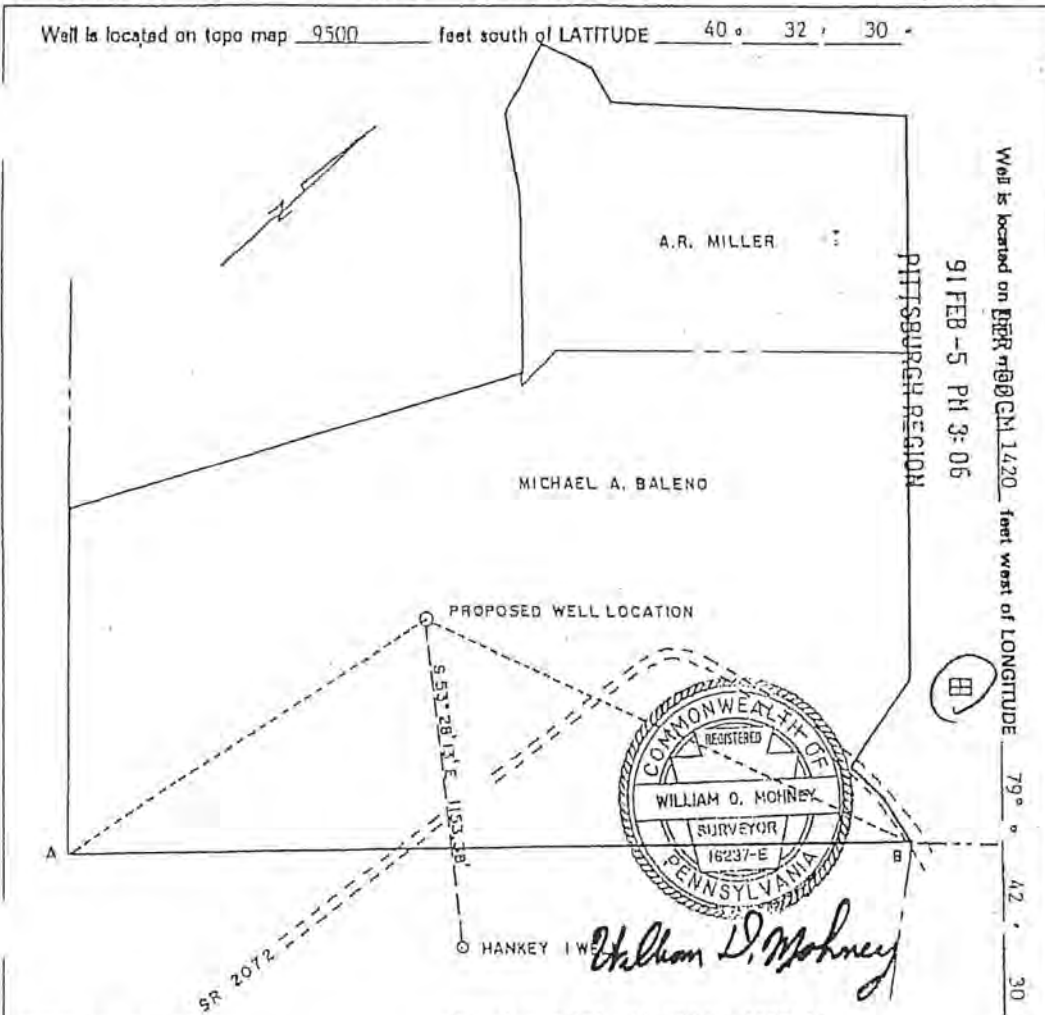
WELL LOCATION PLAT

C-45845

003-21264

Well is located on topo map 9500 feet south of LATITUDE 40° 32' 30"

Well is located on PRR #0001420 feet west of LONGITUDE 79° 0' 42' 30"



William O. Mohney
 HANKEY 1 W

- Lease Line
- Property Line
- Proposed Well Location
- ⊕ Existing Well Location

Loc-A = S 10° 01' 06" W 1529.2'
 Loc-B = N 66° 57' 16" E 1915.6'
 A - B = N 41° 58' 00" E 3033.85'

Department Use Only

G	C

Include description of the property and courses and distances of the well(s) location to two or more permanent identifiable points or land marks, all buildings and water supplies within 200', all springs, bodies of water and streams within 100' identified on the most current 7 1/2" topographic map and wetlands within 100'. Reference to buildings, springs, bodies of water wetlands and water supplies within 1,000 is not required for well plugging.

⊕ Denotes location of well on 7 1/2" topo map Permit #37-003-21266-00 Project #

Penneco Oil Company, Inc.		Revision <input checked="" type="checkbox"/>	W. D. Mohney
Well Permittee/Registrant		Alteration <input type="checkbox"/>	Surveyor/Engineer
200 U.S. Route 22		Storage Recondition <input type="checkbox"/>	PB-2
Address		New Location <input type="checkbox"/>	Drawing Number Revised
Delmont, PA 15626		Drill Deeper <input type="checkbox"/>	1-2-91 02-05-91
Michael A. Baleno		Abandonment <input type="checkbox"/>	Date
Surface Owner		Registration <input type="checkbox"/>	1" = 500'
N/A		Plugging <input type="checkbox"/>	Scale
Surface Lessor (if any)		Surface landowner and water supply within 1,000'	
Burton		Surveyor with water supply within 1,000'	
Farm Name		M.A. Baleno	
L		Approximate course and distance to water supply	
Well No. Tract Serial No.		N 62° 51' E 850'	
107.3	1120	Wilton Ranton Mine	
None	Ground Elevation	Wilton Coal Co.	
None	4200	Sealed	
Allegheny	Anticipated TD	Sealed	
Allegheny	Plum Run	Sealed	
County	Municipality	Workable Coal Seams	
New Kensington East	7	Consolidated Coal Co. Upper Freeport	
Topo Quadrangle	Section	M.A. Baleno All Others	
Commonwealth of Pennsylvania		cum 2/7/91	
Department of Environmental Resources			
Bureau of Oil and Gas Management			

RECEIVED
 FEB 29 1991
 A. BALENO
 SURVEYOR

NEW KENSINGTON EAST
003-21266

RE
7500' S 40° 32' 30"
1420' W 79° 42' 30"

L 2

ER-QG-4; Rev. 3/89 (4)

Commonwealth of Pennsylvania
Department of Environmental Resources
Bureau of Oil and Gas Management

DE 41072

41073 WELL RECORD AND COMPLETION REPORT

- In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-QG-75).

RENTON-DEV

Well Operator Pennaco Energy Corporation		Telephone Number 412-168-8232	
Address 200 Route 22, P. O. Box 300, Delmont, PA 15626-1634			
Permit Number 37-003-21266-00		Project Number	
Farm Name Burton #1	Farm Number	Serial Number PB-92	Acres 107
Township Plum Borough		County Allegheny	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (X) <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/>	Date Drilling Started 2-22-91	Date Drilling Completed 3-1-91
Elevation 1,120'	Total Depth 4,025'	T.M. Quadrangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe Type and Amount	Packer/Hardware			Date Run
				Type	Size	Depth	
15"	13-3/8"	35	Sanded In	N/A	N/A	N/A	2-21-91
12-1/4"	9-5/8"	612	Cement - 150 Sacks	Float shoe	9-5/8"	612	2-25-91
8-3/4"	7"	1,987	Cement - 275 Sacks	Float shoe	7"	1,995	2-27-91
6-1/4"	4-1/2"	3,959	Cement - 170 Sacks	Float shoe	4-1/2"	3,967	3-3-91

T.D.	D.D.	D.P.I.	Class	O	G	Lease
4025		3870	D			

Cement return on surface casing? Yes No

COMPLETION REPORT

Perforation Record			Stimulation Record							
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate	
	From	To			Type	Amount	Type	Amount		
3-11	3,845	3,870	3-11	3845-3870	25	Water	12,500	Sand	15,000	31 BPM
3-11	3,406	3,443	3-11	3406-3443	37	Water	10,500	Sand	13,000	25 BPM
3-11	3,228	3,256	3-11	3228-3256	28	Water	33,000	Sand	68,000	34 BPM
3-11	3,146	3,150	3-11	3146-3150	4	Water	10,500	Sand	13,000	23 BPM

Natural Open Flow	Natural Rock Pressure	Hours	Days
After Treatment Open Flow	After Treatment Rock Pressure	Hours	Days
250 MCF	650#	Not Taken	

JUL 21 1992

Name, Address, and Telephone Number of Well Service Companies	
P. D. Hill Drilling Co.	Rte. 321 South, Kane, PA 16735-0209 814-837-6614
Universal Well Services	P. O. Box 305, Punxsutawney, PA 15767 814-938-2052
Allegheny Nuclear Surveys, Inc.	Elderton, PA 15736 412-354-3090

RECEIVED
JUL 26 1992
-21266

003-21266

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Fill	0	3				Driller's Log
Shale	3	25				
Sand	25	35				
Sand and Red Bed	35	48				
Redbed, Sand & Shale	48	560			1" @ 98'	
Sand and Shale	560	585				
Open Mine	585	613				
Sand and Shale	613	700				
Sand and Shale	700	1150				
Sand and shale	1150	1510				
Shale and Sand	1510	1930			2" @ 1850'	
Sand and Shale	1930	2022				
Sand	2022	2095				
Redrock, Sand & Shale	2095	2220				
Sand and Shale	2220	2750				
Sand and Shale	2750	3280				
Shale and Sand	3280	4025				
TD	4025					

PENNECO ENERGY CORPORATION

BY: [Signature]
Operator's Signature

Vice-President
Title

6-5-91
Date

FOR OFFICIAL USE ONLY

[Signature] 5-18-92
Reviewed By Date

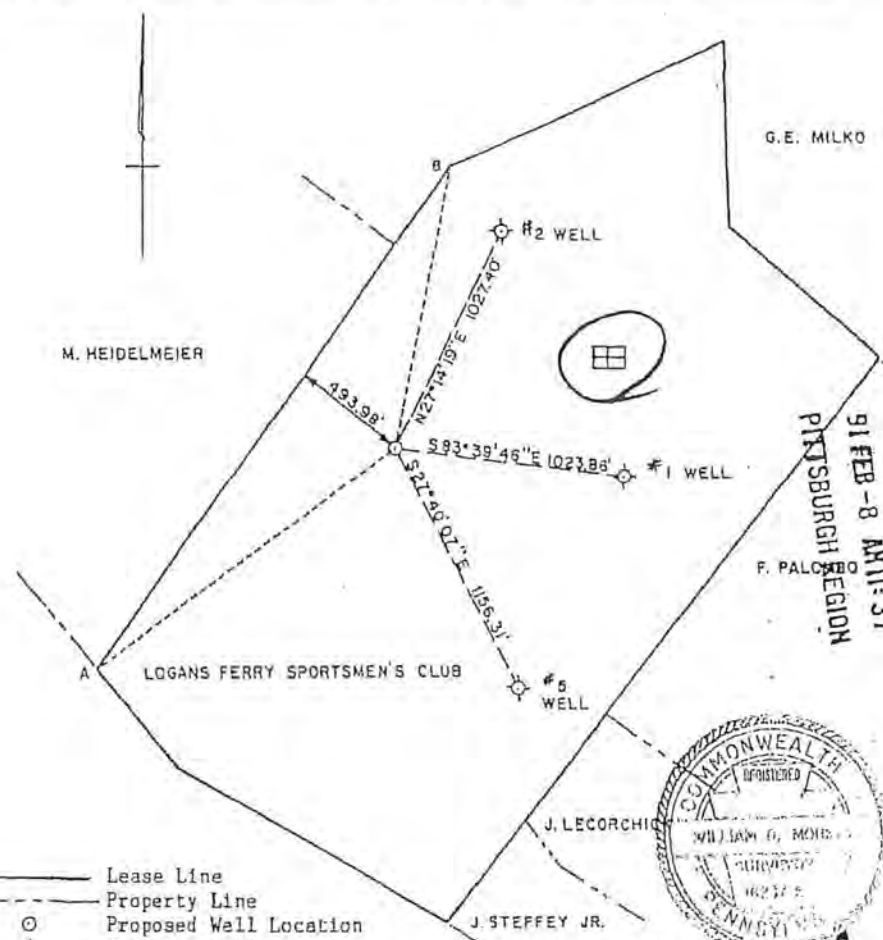
Comments _____

GEO COPY

WELL LOCATION PLAT

003-21267
C-40987

Well is located on topo map 5790 feet south of LATITUDE 40 ° 32 ' 30 "



Well is located on topo map 5630 feet west of LONGITUDE 79 ° 42 ' 30 "

- Lease Line
- - - Property Line
- Proposed Well Location
- ⊙ Existing Well Location
- Loc-A = S 54° 07' 13" W 1581.97'
- Loc-B = N 11° 44' 13" E 1205.61'
- A - B = N 35° 55' 30" E 2602.64'
- A and B are property corners



William D. Mohney

Department Use Only

G	C
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Include description of the property and courses and distances of the well(s) location to two or more permanent identifiable points or land marks, all buildings and water supplies within 200', all springs, bodies of water and streams within 100' identified on the most current 7 1/2" topographic map and wetlands within 100'. Reference to buildings, springs, bodies of water wetlands and water supplies within 1,000 is not required for well plugging.

⊞ Denotes location of well on 7 1/2" topo map Permit #37-003-21267-00 Project #

Penneco Oil Company, Inc.		Revision <input type="checkbox"/>		W.D. Mohney	
Well Permittee/Registrant 200 U.S. Route 22		Alteration <input type="checkbox"/>		Surveyor/Engineer	
Address Delmont, PA 15626		Storage Recondition <input type="checkbox"/>		S-3	
Logans Ferry Sportsman's Club		New Location <input checked="" type="checkbox"/>		Drawing Number	
Surface Owner N/A		Drill Deeper <input type="checkbox"/>		1-29-91	
Surface Lessor (if any) Sportsman's Club		Abandonment <input type="checkbox"/>		Date	
Farm Name 3		Registration <input type="checkbox"/>		1" = 600'	
Well No. Tract Serial No. 142,32 1220		Plugging <input type="checkbox"/>		Scale	
Acres None				Approximate course and distance to water supply	
Angle of Deviation (Degrees) Allegany		Surface landowner and water purveyor with water supply within 1,000' None			
Municipality Plum Boro					
County New Kensington East					
Topo Quadrangle Section					
Commonwealth of Pennsylvania Department of Environmental Resources Bureau of Oil and Gas Management		Owner/Operator/Lessor Lesone Enterprise Inc		Workable Coal Seams All Seams	
				eum 2/21/91	
				Within Renton Mine	
				Villa Coal Co.	
				Seated	

PA GEOLOGICAL SURVEY
FEB 20 1991
PA ENGINEER W. D. MOHNEY

NEW KENSINGTON EAST
003-21267 2

RED# 41128
41729

ER-OG-4; Rev. 3/83

5790' S 40° 32' 30"
5630' W 79° 42' 30"

(9)

Commonwealth of Pennsylvania
Department of Environmental Resources
Bureau of Oil and Gas Management

WELL RECORD AND COMPLETION REPORT

- In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-OG-75).

RENTAN - DEV

Well Operator Penneco Energy Corporation		Telephone Number 412-468-8232	
Address 200 U.S. Route 22 - Delmont, PA 15626			
Permit Number 37-003-21267-00		Project Number	
Firm Name Sportmen's Club #3	Firm Number	Serial Number PL-91	Area 1A2 32
Township Plum Boro		County Allegheny	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (Air) <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/>	Date Drilling Started 3/13/91	Date Drilling Completed 3/22/91
Elevation 1220	Total Depth 4428	7 th Quadrangle New Kensington East

BRALLER

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe Type and Amount	Packer/Hardware			Date Run
				Type	Size	Depth	
15"	13-3/8"	34.30'	Sanded in	N/A	N/A	N/A	3/13/91
12-1/4"	9-5/8"	749.0'	Cement - 200 Sacks	Flat Shoe	9-5/8"	749.0'	3/19/91
8-3/4"	7"	2201.30	Cement - 355 Sacks	Flat Shoe	7"	2214.0'	3/21/91
T.D.		DD	D.P.I.	Class	O'G	Lease	
4428			2490	D			

Cement return on surface casing? yes no

COMPLETION REPORT

BRAP

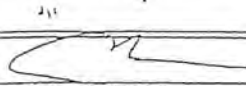
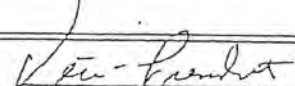
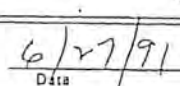
Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	

Natural Open Flow 875 MCF	Natural Rock Pressure 409	RECEIVED	Hours	Days
After Treatment Open Flow N/A	After Treatment Rock Pressure N/A	MULTI-2-1-1992	Hours	Days

Name, Address, and Telephone Number of Well Service Companies		
F.D. Hill Drilling Co., Rt. 321 South	Kana PA 16735	814-837-6612
Universal Well Services	P.O. Box 305 Punxsutawney, PA 15767	814-938-2051
Allegheny Nuclear Surveys, Inc.	Elderton, PA 15736	412-354-3090

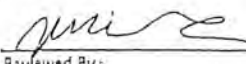
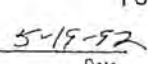
003-21267

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Bony	0	20				Drillers Log
Shale	20	30				
Sand	30	48				
Sand & Shale	48	193			Damp @ 50	
Sand & Shale	193	220			1" @ 220'	
Red Rock & Shale	220	600				
Sand & Shale	600	690				
Mine	690	695				
Sand & Shale	695	780				
Sand & Shale	780	1125				
Sand & Shale	1125	1220				
Sand & Shale	1220	1600				
Sand & Shale	1600	2000			2" @ 1950'	
Sand & Shale	2000	2225				
Red Rock, Sand & Shale	2225	2340				
Shale & Sand	2340	2900	2470'			
Shale & Sand	2900	3400				
Sand & Shale	3400	3975				
Sand & Shale	3975	4428				
T.D.	4428					

Operator's Signature _____ Title _____ Date _____

FOR OFFICIAL USE ONLY



 Comments _____

Reviewed By _____ Date _____

GEO COPY

003-21285

WELL LOCATION PLAT

Well is located on topo map 10,360 feet south of LATITUDE 40° 32' 30"

Well is located on topo map 1960 feet west of LONGITUDE 79° 42' 30"



- Lease Line
- Property Line
- ⊙ Proposed Well Location
- ⊙ Existing Well Location
- Loc-A = N 72° 06' 16" W 782.31'
- Loc-B = S 12° 35' 05" E 596.53'
- A - B = S 46° 45' 00" E 1200.54'
- A and B are property corners



William D. Mohney

Department Use Only

G	C
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Include description of the property and courses and distances of the well(s) location to two or more permanent identifiable points or land marks, all buildings and water supplies within 200', all springs, bodies of water and streams within 100' identified on the most current 7 1/2" topographic map and wetlands within 100'. Reference to buildings, springs, bodies of water wetlands and water supplies within 1,000 is not required for well plugging.

⊞ Denotes location of well on 7 1/2" topo map Permit # 39-402-21285-01 Project #

Penneco Oil Company, Inc. 13825		Revision	<input type="checkbox"/>	W.D. Mohney RECEIVED
Well Permittee/Registrant 200 U.S. Route 22		Alteration	<input type="checkbox"/>	Surveyor/Engineer
Address Delmont, PA 15626		Storage Recondition	<input type="checkbox"/>	PB-3
Michael A. and Linda S. Baleno		New Location	<input checked="" type="checkbox"/>	Drawing Number EP 70 1991
Surface Owner N/A		Drill Deeper	<input type="checkbox"/>	3-21-91
Surface Lessor (if any) Burton		Abandonment	<input type="checkbox"/>	Date PA GEOLOGICAL SURVEY
Farm Name 2		Registration	<input type="checkbox"/>	1" GEODOLITE & 200' DISTANCE
Well No. 107.3	Tract 1200	Plugging	<input type="checkbox"/>	Scale
Acres	Ground Elevation 4250	Approximate distance to water supply 1991		
Angle of Deviation (Drilling)	Anticipated TD	S 59° E GEODOLITE SURVEY		
County Allegheny	Municipality Plum Boro	S 46° E & 200' DISTANCE		
City/Township New Kensington East	Section 7	All other homes within 1000' use city water supply		
Toop Quadrangle		Workable Coal Seams		
Commonwealth of Pennsylvania Department of Environmental Resources Bureau of Oil and Gas Management		Owner/Operator/Lessor	Name of Seam	
		Tanoco Enterprise Inc. M.A. Baleno	Upper Freeport All Others	
		Within Benton Mine Villa Coal Co. (Sealed)		
		8/13/91		

10360' S 40° 32' 30"
1740' W 79° 42' 30"

WELL RECORD AND COMPLETION REPORT

(G)

In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.

In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of top-hole water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filled with the Completion Report (see ER-OG-75).

RENTON FIELD.

Well Operator	Penneco Oil Company, Inc.		Telephone Number	(412) 468-8232
Address	200 Rt 22, P.O. Box 300 Delmont, PA 15626			Zip
Permit Number	37-003-21285-00	Project Number		
Firm Name	Burton	Firm Number	2	Serial Number PB-93
Township	Plum Borough	County	Allegheny County	
Type of Well	<input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

P T T S B U R T O N R E G I O N
 JUN - 1 AM 11: 5

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method	Rotary (Air <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other (Specify)	Date Drilling Started	10-18-91	Date Drilling Completed	10-24-91
Elevation	1184	Total Depth	4060	7 1/2' Quadrangle	New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe		Packer/Hardware			Date Run
			Type and Amount	Type	Size	Depth		
15"	13 3/8"	34'	Sanded in	N/A	N/A	N/A	10-18-91	
1/4"	Reduced	Lo 8 3/4"	at 698'					
8 3/4"	7"	2034	Cement - 625 sacks	Float shoe	7"	2043	10-22-91	
6 1/4"	4 1/2"	4014	Cement - 170 sacks	Float shoe	4 1/2"	4021	10-25-91	

Cement return on surface casing? yes no

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
10-30	3891'	3874'	0-30	3891-3874	Water	12,000gal	Sand	21,000#	26.7 BPM
10-30	3562'	3431'	0-30	3562-3431	Water	10,000gal	Sand	13,000#	20.7 BPM
10-30	3250'	3282'	0-30	3250-3282	Water	14,000gal	Sand	68,000#	26.8 BPM
10-30	3175'	3175'	0-30	3171-3175	Water	10,000gal	Sand	18,000#	19.5 BPM
			D.P.I.		Class	0 G	Lease		
Natural Open Flow 155 MCF			4060		3891 D G				
After Treatment Open Flow 335 MCF			Natural Rock Pressure		760 psig		Hours Days		

Company Name, Address, and Telephone Number of Well Service Companies	Company Name, Address, and Telephone Number of Well Service Companies
D. 1111 Drilling Company - Rt 321 South - Kane, PA 16735	814-837-8888
Howsco Well Service - 3000 Old Airport Road - Wooster, OH 44691	216-264-8885
Allegheny Nuclear Surveys, Inc. Elderton, PA 15735	412-354-3800

003 21285

PS 2

DRILLER'S LOG OF FORMATIONS

Name	Top	Bottom	Gas At	Oil At	Water At (Feet or Below)	Source of Data
White Sand	0	4				Drillers Log
Shale & Sand	4	9				
Shale & Sand	9	30				
Shale & Sand	30	40			1/2" @ 40'	
Shale	48	130				
Pit Red Bed	130	150				
Shale	150	200				
Red Rock	200	210				
Shale	210	260				
Red Rock	260	285				
Shale	285	300				
Red Rock	300	315				
Shale & Sand	315	525				
Sand & Shale	525	605				
Coal & Shale	605	612				
Sand & Shale	612	698				
Shale	698	775				
Sand & Shale	775	1330				
Shale	1330	1370				
Sand & Shale	1370	1630				
Shale & Sand	1630	1910			3" @ 1870	
Sand	1910	2060		1980		
Shale & Sand	2060	2120				
Red Rock	2120	2150				
Shale, Sand, Red Rock	2150	2400				
Shale	2400	2550				
Sand & Shale	2550	3160	show of 3160			
Sand	3160	3165				
Sand & Shale	3165	3260				
Sand	3260	3265				
Shale & Sand	3265	3510				
Shale & Sand	3510	4060				

Operator's Signature: _____ Title: Wm. Brown Lt Date: 5/27/93

FOR OFFICIAL USE ONLY

Reviewed By: RAH 6-2-93 Date: _____ Comments: _____

003-21287
C-4665

ER - DG - P, Rev. 6/86
GEO COPY

WELL LOCATION FLAT

Well is located on topo map 4200 feet south of LATITUDE 40 • 32 • 30 •

Well is located on topo map 2190 feet west of LONGITUDE 79 • 42 • 30 •



William D. Mohney



- LEASE LINE
- ROADS
- PROPOSED GAS WELL
- ⊙ EXISTING GAS WELL
- LOC-A = S 23°38'02"E 815.22'
- LOC-B = S 78°53'55"E 841.25'
- A-B = N 10°27'11"E 768.61'
- A&B ARE PROPERTY CORNERS

DEPARTMENT USE ONLY

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAID MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 250'. ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2" TOPOGRAPHIC MAP AND WETLANDS WITHIN 100'. REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1,000' IS NOT REQUIRED FOR WELL PLUGGING.

□ DENOTES LOCATION OF WELL ON 7 1/2" TOPO MAP PERMIT NO. 37-003-21287-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC.		REVISION ALTERATION STORAGE RECONDITION NEW LOCATION DRILL DEEPER ABANDONMENT REGISTRATION PLUGGING	W.D. MOHNEY & ASSOC. Surveyor/Engineer 1/1 Drawing Number 7-17-91 Date 1 INCH = 300 FEET Scale
Well Permittee/Registrant 200 U.S. ROUTE 22			
Address DELMONT, PA 15626			
THOMAS G. & BARBARA HOWARD KENNETH & SUSAN HOWARD			
Surface Owner N/A			
Surface Lessor (if any) HOWARD		SURFACE LANDOWNER AND WATER PURVEYOR WITH WATER SUPPLY WITHIN 1000'	APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY
Farm Name 1	PH-96	E.L. PATTOCK	N 88°55'E 800'
Well No. 31.23	Tract	D.A. PLANCE	S 80°00'E 1000'
Acres NONE	Ground Elevation 4250	GEORGE SZITAS	N 48°10'E 1000'
Angle of Deviation (Drilling) ALLEGHENY	Anticipated TD PLUM BOROUGH	VIRGINIA D. MITCHELL	N 21°40'E 850'
County EW KENSINGTON (EAST)	Municipality 7	ROBERT MATT	N 35°30'E 700'
Topo Quadrangle	Section	Workable Coal Seams Owner/Operator/Lessee Name of Seams	
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT		TESONE ENTERPRISES, INC.	FREEPORT
		THOMAS G. & BARBARA HOWARD	
		KENNETH & SUSAN L. HOWARD	
		08/29/91	ALL OTHER GEOLOGICAL SURVEYS WITHIN KENSINGTON TOWNSHIP Sealed

RECEIVED

SEP 10 1991

NEW KENSINGTON EAST

42179 003-21287

4200' S 40° 32' 30"
2190' W 79° 42' 30"
(G)

WELL RECORD AND COMPLETION REPORT

In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.

- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-QG-75).

RENTON FIELD

Well Operator Penneco Oil Company, Inc.		Telephone Number 412-468-8232	
Address 200 Rt 22, P.O. Box 300 Delmont, PA			15626 Zip
Permit Number 37-003-21287-00		Project Number	
Farm Name Howard	Farm Number 1	Serial Number M - 96	Access 31.23
Township Plum Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

PITTSBURGH REGION
JUN - 1 AM 11:50
DER-300M

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Notary <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 09-24-91	Date Drilling Completed 10-01-91
Elevation 1075	Total Depth 4121	7 1/2' Quadrange New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Wall	Material Behind Pipe		Packer/Hardware			Date Run
			Type and Amount	Type	Size	Depth		
15"	13 3/8"	34'	Sanded in	N/A	N/A	N/A	9-24-91	
2 1/4"	9 5/8"	574'	Cement - 200 sacks	Float Shoe	9 5/8"	574'	9-25-91	
8 3/4"	7"	1993'	Cement - 305 sacks	Float Shoe	7"	2009'	9-27-91	
6 1/4"			NO PIPE INSTALLED					
Cement return on surface casing? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no								

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
				No Zones were Fractured					
	D.	D.D.	E.P.I.	Class	O	C	Lease		
	4121		2300	D G		I	I		
Natural Open Flow 349 MCF			Natural Rock Pressure 48 psig		Hours	Days			
After Treatment Open Flow			After Treatment Rock Pressure		Hours	Days			

PITTSBURGH REGION
JUN - 2 AM 6:44
DER-300M

JUN 20 1993

Name, Address, and Telephone Number of Well Service Companies

F.D. Hill Drilling Company - Rt 321 South - Kane, PA 16735	PA GEOLOGICAL SURVEY	JUN 20 1993
Nowco Well Service - 3000 Old Airport Road - Wooster, OH 44691	PA GEOLOGICAL SURVEY	JUN 20 1993
Allegheny Nuclear Surveys, Inc. - Elderton, PA 15736	PA GEOLOGICAL SURVEY	JUN 20 1993

003-21287

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Clay	0	10				Drillers Log
Red Bed & Shale	10	28				
Sand	28	34				
Shale & Sand	34	79			Damp @ 60'	
Sand & Shale	79	150				
Red Rock	150	165				
Sand & Shale	165	185				
Red Rock	185	205				
Sand & Shale	205	295				
Shale	295	315				
Sand & Shale	315	515			1" @ 430'	
Mine (Gdb)	515	525				
Sand & Shale	525	685				
Shale	685	745				
Sand & Shale	745	760				
Shale	760	880				
Sand & Shale	880	940			1/2" @ 880'	
Shale	940	1000				
Sand & Shale	1000	1045				
Sand	1045	1100				
Sand & Shale	1100	1290				
Shale & Sand	1290	1700				
Shale	1700	1780				
Sand & Shale	1780	1810			2" @ 1790'	
Sand	1810	1840				
Sand & Shale	1840	1885			1" @ 1885	
Sand	1885	1935				
Sand & Shale	1935	1940				
Shale	1940	1950				
Sand & Shale	1950	2015				
Shale	2015	2060				
Red Rock & Sand	2060	2200				
Sand & Shale	2200	2313	2300			
Shale & Sand	2313	2500				
Sand & Shale	2500	3100				
Sand & Shale	3100	3600				
Shale	3600	3900				
Sand & Shale	3900	3920				
Shale	3920	4121				

AS ✓

Operator's Signature: [Signature] Title: Vice President Date: 5/27/93

FOR OFFICIAL USE ONLY

Reviewed By: MA 6-2-93 Date: _____ Comments: _____

WELL LOCATION PLAT

C-47278

003-21300

GEO COPY

on topo map 8490' feet south of LATITUDE 40 - 32 - 30

Well is located on topo map 1145' feet west of LONGITUDE 79 - 42 - 30



- LEASE LINE
- PROPERTY LINE
- ROAD
- ⊙ PROPOSED GAS WELL
- ★ EXISTING GAS WELL
- LDC-A = N 7°54'42" E 947.90'
- LDC-B = S 80°01'13" E 1090.03
- PROPERTY CORNERS A-B = S 39°54'10" E 1470.12'

92 MAR -5 AM 11:25
 DEPT. OF ENVIRONMENTAL RESOURCES
 PITTSBURGH REGION

DEPARTMENT USE ONLY
 G C

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2' TOPOGRAPHIC MAP AND WETLANDS WITHIN 100'. REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING.

⊞ DENOTES LOCATION OF WELL ON 7 1/2' TOPO MAP PERMIT NO. 27-003-21300-0* PROJECT NO. _____

PENNECO OIL COMPANY, INC. 13825 Well Permittee/Registrant P.O. BOX 300, 200 U.S. ROUTE 22 Address DELMONT, PA 15626 MICHAEL A. AND LINDA S. BALENO Surface Owner N/A Surface Lessor (if any) BURTON Farm Name 3 PB-94 Well No. Tract 107.30 Serial No. 1120' Acres NONE Ground Elevation 4000' Angle of Deviation (Drilling) ALLEGHENY Anticipated TD PLUM BORO County NEW KENSINGTON, EAST Municipality 7 Topo Quadrangle Section COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT		REVISION ALTERATION STORAGE RECONDTION NEW LOCATION DRILL DEEPER ABANDONMENT REGISTRATION PLUGGING 0000000000	W.D. MOHNEY & ASSOC. Surveyor/Engineer B-3 Drawing Number 1-11-92 Date 1 INCH = 600' Scale APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY WITHIN 1000' MICHAEL A. & LINDA S. BALENO LaDonna H. Fuge S 67°10' E 710' N 63° 21' 57" W 854' WORKABLE COAL SEAMS Owner/Operator/Lessee TESHORE LAND COMPANY, INC. UPPER FREEPORT MICHAEL A. & LINDA S. BALENO Date 3/6/92
---	--	---	--

RECEIVED
 17 1992
 ALL OTHERS... SURVEY
 PH. & CO. Survey Division

NEW KENSINGTON EAST

003-21300

65087

43084

8490' S 40° 32' 30"

1145' W 79° 42' 30" WELL RECORD AND COMPLETION REPORT

(4)

- In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-OG-75).

RENTON FIELD

Well Operator Penneco Oil Company, Inc.		Telephone Number 412-468-8232	
Address 200 Route 22, P.O. Box 300 Delmont, PA 15626			
Permit Number 37-003-21300-00		Project Number	
Firm Name Burton #3	Firm Number	Serial Number PB-94	Acres 107.3
Township Plum Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

93 JUN -1 AM 11:11
PITTSBURGH REG
DER-BORGH

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Notary (Air) <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other (Specify)	Date Drilling Started 03-09-92	Date Drilling Completed 03-16-92
Elevation 1197	Total Depth 4018	7 1/2' Quadrangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe		Packer/Hardware		Date Run														
			Type and Amount	Type	Size	Depth															
15"	13 3/8"	34'	Sanded in	N/A	N/A	N/A	03-09-92														
2 1/4"	9 5/8"	648'	Cement - 215 sacks	Float Shoe	8 5/8"	648	03-10-92														
8 3/4"	7"	2035	Cement - 350 sacks	Float Shoe	7"	2043	03-12-92														
6 1/4"	4 1/2"	3952	Cement - 165 sacks	Float Shoe	4 1/2"	3960	03-16-92														
<table border="1"> <tr> <td>T.D.</td> <td>O.D.</td> <td>D.P.I.</td> <td>Class</td> <td>O</td> <td>G</td> <td>Lease</td> </tr> <tr> <td>4018</td> <td></td> <td>3862</td> <td>D G</td> <td>1</td> <td>1</td> <td></td> </tr> </table>								T.D.	O.D.	D.P.I.	Class	O	G	Lease	4018		3862	D G	1	1	
T.D.	O.D.	D.P.I.	Class	O	G	Lease															
4018		3862	D G	1	1																

Cement return on surface casing? yes no

BR

B

B

COMPLETION REPORT

93 JUN -3 AM 9:53
PITTSBURGH REG
DER-BORGH

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Perforation Rate
	From	To			Type	Amount	Type	Amount	
03-25-92	3844	3850	3-25	3844-3850					
03-25-92	3860	3862	3-25	3860-3862	Water	12,000gal	Sand	15,000#	31.3 BPM
03-25-92	3535	3539	3-25	3535-3539	Water	10,000gal	Sand	13,000#	23.0 BPM
03-25-92	3225	3232	3-25	3225-3232	Water				
03-25-92	3238	3252	3-25	3238-3252	Water	32,000gal	Sand	68,000#	84.4 BPM

Natural Open Flow 69 MCFD	Natural Rock Pressure 775 PSIG	Days
After Treatment Open Flow 380 MCFD	After Treatment Rock Pressure 775 PSIG	Days

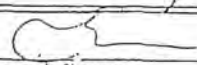
Name, Address, and Telephone Number of Well Service Companies

F.D. Hill Drilling Co. Rt. 321 South, Kane, PA 16735	814-837-6612
Universal Well Services, P.O. Box 305, Pursutawey, PA 15767	814-938-2051
Allegheny Nuclear Surveys, Inc. Elderton, PA 15736	412-354-3090

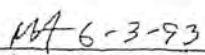
003-21300

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Shale	0	10				Drillers Log
Sand	10	14				
Red Bed & Shale	14	30				
Sand	30	34				
Shale & Sand	34	48				
Sand & Shale	48	580			1" @ 100'	
Mine	580	588				
Shale	588	635				
Sand & Shale	635	1579				
Shale & Sand	1579	1830				
Murrysville	1830	1942			1" @ 1840	
100' Sand	1942	2015			3" @ 1900	
Sand & Shale	2015	2051				
Sand, Shale & Red Rock	2051	2165				
Red Rock, Sand & Shale	2165	2605				
Sand & Shale	2605	3013				
Shale	3013	3045				
Sand & Shale	3045	3170				
Shale & Sand	3170	3570				
Sand & Shale	3570	4018				

A 2


Vice President
5/27/93
Operator's Signature
Title
Date

FOR OFFICIAL USE ONLY


Date
Comments
Reviewed By

WELL LOCATION PLAN

003-21312

Well is located on topo map 7800' feet south of LATITUDE 40 . 32 ' 30 .

GEO COPY



William D. Mohney
8/5/92



Well is located on topo map 4650' feet west of longitude 79 . 42 ' 30 .

DER-5034
92 AUG 25 PM 2:48
PITTSBURGH REGION

- LEASE LINE
- PROPERTY LINE
- ROADS
- STREAMS/WATER
- ☉ PROPOSED WELL LOCATION
- ☼ EXISTING WELL

LOC-A = N 63°53'44" E 809.47'
LOC-B = S 89°46'52" E 340.00'
PROPERTY CORNERS A-B = S 47°28'20" W 525.00'

NOTE: EDGE OF DISTURBED AREA WILL BE NO CLOSER THAN 50 FEET FROM UNNAMED TRIBUTARY OF PUCKETA CREEK

DEPARTMENT USE ONLY
G C pm

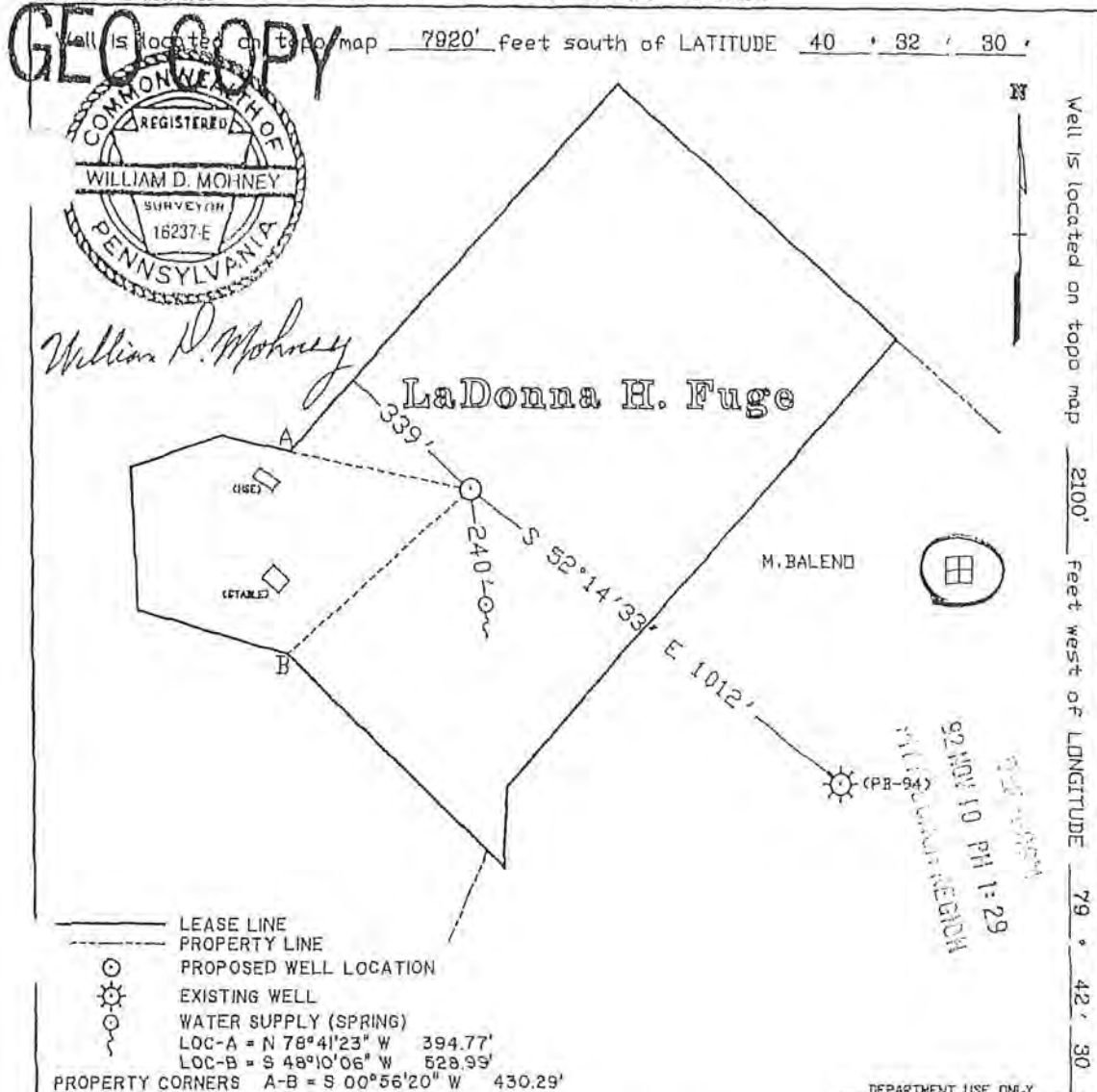
INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2" TOPOGRAPHIC MAP AND WETLANDS WITHIN 100'. REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING.

☐ DENOTES LOCATION OF WELL ON 7 1/2" TOPO MAP PERMIT NO. 37-003-21312-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC. 13825 Well Permittee/Registrant P.O. BOX 300, 200 U.S. ROUTE 22 Address DELMONT, PA 15626 HELEN LECORCHICK Surface Owner N/A Surface Lessor (if any) LECORCHICK UNIT Farm Name 1 PL-189 Well No. 3139 Tract Serial No. 1120' Acres NONE Ground Elevation 4000' Angle of Deviation (drilling) ILEGHENY Anticipated TD PLUM BORO Municipality 7 NEW KENSINGTON, EAST Topo Quadrangle Section		REVISION ALTERATION STORAGE RECONDITION NEW LOCATION DRILL DEEPER ABANDONMENT REGISTRATION PLUGGING <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W.D. MOHNEY & ASSOC. Surveyor/Engineer PL-1 Drawing Number B-3-92 Date 1 INCH = 300 FEET Scale SURFACE LANDOWNER AND WATER SURVEYOR WITH WATER SUPPLY WITHIN 1000' THOMAS & MARION BROWN S 80°00' E 800' RONALD & EILEEN DELAURIERS S 71°00' E 700' HAROLD HENSON N 89°30' E 950'
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT		RECEIVED Workable Coal Seams Owner/Operator/Lessee Name of Seam TESONE LAND COMPANY FREEPORT SEAMS HELEN LECORCHICK ALL OTHERS NOV 9 1992 PA GEOLOGICAL SURVEY Oil & Gas Technology Building	

WELL LOCATION PLAT

003-21317



Well is located on topo map 2100' feet west of LONGITUDE 79° 42' 30'

LEASE LINE
PROPERTY LINE
PROPOSED WELL LOCATION
EXISTING WELL
WATER SUPPLY (SPRING)
LOC-A = N 78° 41' 23" W 394.77'
LOC-B = S 48° 10' 06" W 528.99'
PROPERTY CORNERS A-B = S 00° 56' 20" W 430.29'

DEPARTMENT USE ONLY
G C *db*

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2' TOPOGRAPHIC MAP AND WETLANDS WITHIN 100' REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING

DENOTES LOCATION OF WELL ON 7 1/2' TOPO MAP PERMIT NO. 37-003-21317-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC. <i>13825</i> Well Permittee/Registrant BOX 800, 200 U.S. ROUTE 22 Address DELMONT, PA 15626 LaDonna H. Fuge RECEIVED Surface Owner N/A Surface Lessor (if any) MILLER DEC 18 1992 Farm Name 1 <i>PA GEOCOPY PERMIT PM-90</i> Well No. Tract 28.12 1100' Acres NONE Ground Elevation 8900' County ALLEGHENY <i>1408</i> NEW KENSINGTON, EAST Topo Quadrangle Section		REVISION ALTERATION <input type="checkbox"/> STORAGE RECONDITION <input type="checkbox"/> NEW LOCATION <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> ABANDONMENT <input type="checkbox"/> REGISTRATION <input type="checkbox"/> PLUGGING <input type="checkbox"/>	W.D. MOHNEY & ASSOC. Surveyor/Engineer PM-1 Drawing Number 10-28-92 Date 1 INCH = 300 FEET Scale
SURFACE LANDOWNER AND WATER PURVEYOR WITH WATER SUPPLY WITHIN 1000' L. H. FUGE S 08° 48' 11" E 240' LINDA & RICHARD KAZIMER S 86° 00' W 750' K. J. FRYNCKO S 74° 00' W 1000' J. E. WILLIAMS S 48° 00' W 1000' R. G. DEPEW S 60° 00' W 900'		APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY	
Workable Coal Seams Owner/Operator/Lessee Name of Seams TESONE LAND COMPANY FREEPORT SEAMS LaDONNA H. FUGE ALL OTHERS <i>GOB (Upper Freeport) 11-24-92</i>		COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT	

NEW KENSINGTON EAST

003-21317

[Handwritten signature]

79° 20' 34" 40° 32' 30"
105° 01' 29" 42' 30"
(4)

WELL RECORD AND COMPLETION REPORT

1. In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
2. In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of top-hole water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-QG-75).

RENTON FIELD

Well Operator Penneco Oil Company, Inc.		Telephone Number 412-468-8232	
Address 200 Rt 22, P.O. Box 300 Delmont, PA 15626			
Permit Number 37-003-21317-00		Project Number	
Farm Name Miller #1	Farm Number	Serial Number PM-95	Area 28.12
Township Plum Borough		County Allegheny Co.	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (Air <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 12-31-92	Date Drilling Completed 2-16-93
Elevation 1100'	Total Depth 4062	7 1/2' Quadrangle New Kensington East

93 MAY 24 AM 10:29
 DERBORN
 PITTSBURGH REGION

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe		Packer/Hardware			Date Run
			Type and Amount	Type	Size	Depth		
"	16"	8.5'	Sanded in	N/A	N/A	N/A	12/31/92	
"	13"	34'	Sanded in	N/A	N/A	N/A	2/9/93	
12 1/4"	9 5/8"	600'	Cement - 275 sacks	Float Shoe	9 5/8"	608'	2/10/93	
8 3/4"	7"	2020'	Cement - 330 sacks	Float Shoe	7"	2028'	2/11/93	
6 1/4"	4 1/2"	4002'	Cement - 160 sacks	Float Shoe	4 1/2"	4010'	3/2/93	

Cement return on surface casing? <input checked="" type="checkbox"/>	T.D. no 4062	D.D. -	D.P.I. 3818	Class D	G G	O -	L 1	Lease 1
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BR COMPLETION REPORT B

B

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
5-18-93	3815	3818	5-18	3815-3818					
5-18-93	3822	3827	5-18	3822-3827	Water	14,000gal	Sand	21,000#	26 BPM
5-18-93	3833	3835	5-18	3833-3835					
5-18-93	3202	3205	5-18	3202-3205					
5-18-93	3210	3228	5-18	3210-3228	Water	27,000gal	Sand	74,000#	31 BPM
5-18-93	3116	3119	5-18	3116-3119	Water	11,000 gal	Sand	13,000#	19.5 BPM

Natural Open Flow	Natural Rock Pressure	Hours	Days
After Treatment Open Flow 240 MCFD	After Treatment Rock Pressure 550 psi	Hours	Days

RECEIVED

Name, Address, and Telephone Number of Well Service Companies

JUN 1 1993

F.D. Hill Drilling Company - Rt 321 South - Kane, PA 16735	PA GEOLOGICAL SURVEY - 6612
Nawaco Well Service - 3000 Old Airport Road - Wooster, OH 44691	OH - Gas Control Division - 8885
Allegheny Nuclear Surveys, Inc. - Elderton, PA 15736	412-354-3090

DRILLER'S LOG OF FORMATIONS

003-21317

Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Clay	0	7				Drillers Log
Shale	7	8				
Clay & Shale	8	20			Damp @ 70	
Red Bed & Shale	20	30				
Sand & Shale	30	150				
Shale & Sand	150	319			1" @ 220'	
Sand & Shale	319	562				
Open Mine	562	567				
Sand & Shale	567	611				
Shale & Sand	611	775				
Sand & Shale	775	866				
Shale & Sand	866	910				
Sand & Shale	910	922				
Shale & Sand	922	1196			1/2" @ 1020'	
Sand & Shaley Red Rock	1196	1650				
Shale & Sand	1650	1800			1" @ 1830	
Murrysville Sand	1800	1930				
100' Sand	1930	2010				
Sand & Shale	2010	2041				
Shale, Sand, Red Roc	2041	2280				
Shale, Sand	2280	2780				
Sand & Shale	2780	3405				
Shale & Sand	3405	3690				
Sand & Shale	3690	4062				

PSL

Operator's Signature

Vice-President
Title

5-21-93
Date

FOR OFFICIAL USE ONLY

Reviewed By

Date

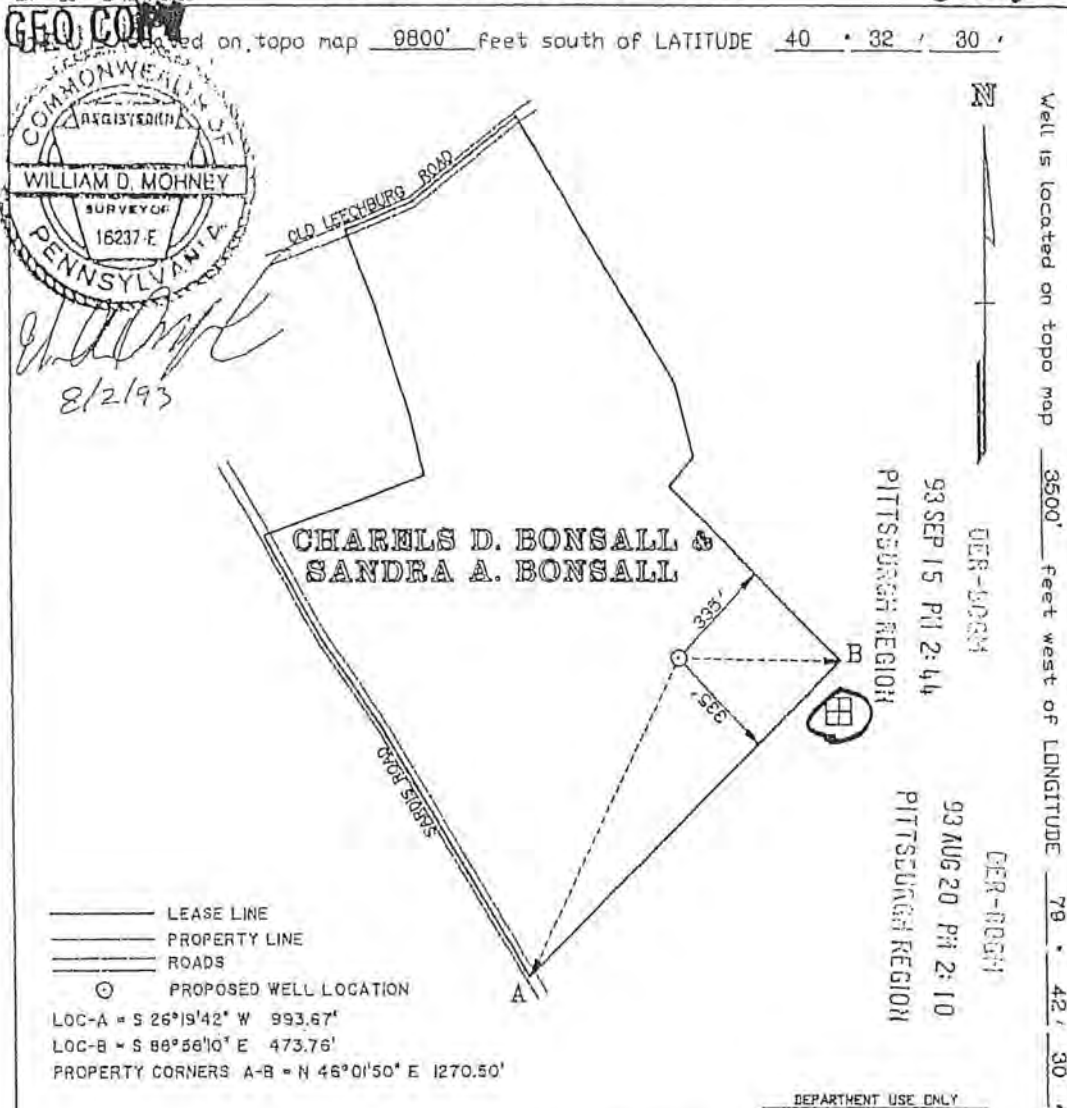
Comments

MA 5-27-93

WELL LOCATION PLAN

003-21334

located on topo map 9800' feet south of LATITUDE 40 • 32 ' 30 ' .



DEPARTMENT USE ONLY
 G930-931C A
 CAW

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELLS LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2" TOPOGRAPHIC MAP AND WETLANDS WITHIN 100' REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING.

⊠ DENOTES LOCATION OF WELL ON 7 1/2" TOPO MAP PERMIT NO. 37-003-21334-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC. 13825		REVISION ALTERATION STORAGE RECONDITION NEW LOCATION DRILL DEEPER ABANDONMENT REGISTRATION PLUGGING	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	W.D. MOHNEY & ASSOC.	
Well Permitter/Registrant P.O. BOX 300, 200 U.S. ROUTE 22				Surveyor/Engineer PB-1	
Address DELMONT, PA 15828 - 0300				Drawing Number 7-12-93	
CHARLES D. BONSALE & SANDRA A. BONSALE		Date 1 INCH = 400 FEET		Scale	
Surface Owner N/A		SURFACE LANDOWNER AND WATER PURVEYOR WITH WATER SUPPLY WITHIN 1000'		APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY	
Surface Lessor (if any) BONSALE		RUDOLPH D. DYKE		N 29°00' E 1000' 00" N 55°30' E 950'	
Farm Name 1 PB-108				DEC 7 1993	
Well No. 43.78	Tract	Serial No. 1100			
Acres NONE		Ground Elevation 3800	PA GEOLOGICAL SURVEY		
Angle of Deviation (Degrees) ALLEGHENY		Anticipated TD PLUM	Workable Coal Name of Seam		
County NEW KENSINGTON, EAST		Municipality 7	TOSONE LAND COMPANY 80% of UPPER FREEPORT NATIONAL STEEL CORP. 40% of UPPER FREEPORT		
Topo Quadrangle		Section	CHARLES D. BONSALE & SANDRA A. BONSALE ALL OTHERS		

GOB [Signature] Freeport

NEW KENSINGTON EAST
003-21334

RE

9800 S 40° 32' 30"
3500 W 79° 45' 30"
(9)

WELL RECORD AND COMPLETION REPORT

JL

- In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-00-75).

RENTON FIELD

Well Operator Pennaco Oil Company, Inc.		Telephone Number 412-468-8232	
Address 200 Route 22, P. O. Box 300, Delmont, PA			15626-0300
Permit Number 37-003-21334		Project Number	
Firm Name Bonsall #1	Firm Number	Serial Number PB-198	Acres 43.78
Township Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (Air <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 11/09/93	Date Drilling Completed 11/16/93
Elevation 1100	Total Depth 3938	7 1/4' Quadangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount in Well	Material Behind Pipe		Packer/Hardware			Date Run
			Type	Amount	Type	Size	Depth	
15"	13 3/8"	34'	Sanded in		N/A	N/A	N/A	11/09/93
12 1/4"	9 5/8"	567'	Cement - 228 sacks		Float Shoe	9 5/8"	567'	11/10/93
8 3/4"	7"	1962'	Cement - 320 sacks		Float Shoe	7"	1970'	11/11/93
6 1/4"			No Pipe was installed					

Cement return on surface casing? yes no

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
			Well was not treated						
	T.D.	D.D.	D.P.I.	Class	O	G	Lease		
	3938		3190	DC					
	B		B				B		

Natural Open Flow 138.583 BPF	Natural Rock Pressure 475 psi	Hours 72	Days SEP 9 1994
After Treatment Open Flow	After Treatment Rock Pressure	Hours	Days SEP 9 1994

Name, Address, and Telephone Number of Well Service Companies

F.D. Hill Drilling Company - Rt 321 South - Kane, PA 16735	814-837-6612
Nowaco Well Service - 3000 Old Airport Road - Wooster, OH 44691	216-264-8885
Allegheny Nuclear Surveys, Inc. - Elderton, PA 15736	412-354-3090

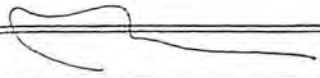
03-21334

DRILLER'S LOG OF FORMATIONS

Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Fill	0	5				Drillers Log
Clay, Red Bed	5	30				
Shale	30	34				
Sand	34	36				
Red Rock, Shale, Sand	36	513			Damp @ 47'	
Open Mine	513	527			1/2" @ 90	
Sand and Shale	537	565				
Shale and Sand	565	1115				
Sand and Shale	1115	1630				
Shale and Sand	1630	1990			1" @ 1772	
Shale and Sand	1990	2280			2" @ 1795	
Sand and Shale	2280	2750		2" @ 1887		
Shale and Sand	2750	3250				
Sand and Shale	3250	3660	138 MCF @ 3190			
Sand and Shale	3660	3938				

ps 2




 Operator's Signature _____ Vice President _____ Title _____ 6-9-94 _____ Date

FOR OFFICIAL USE ONLY

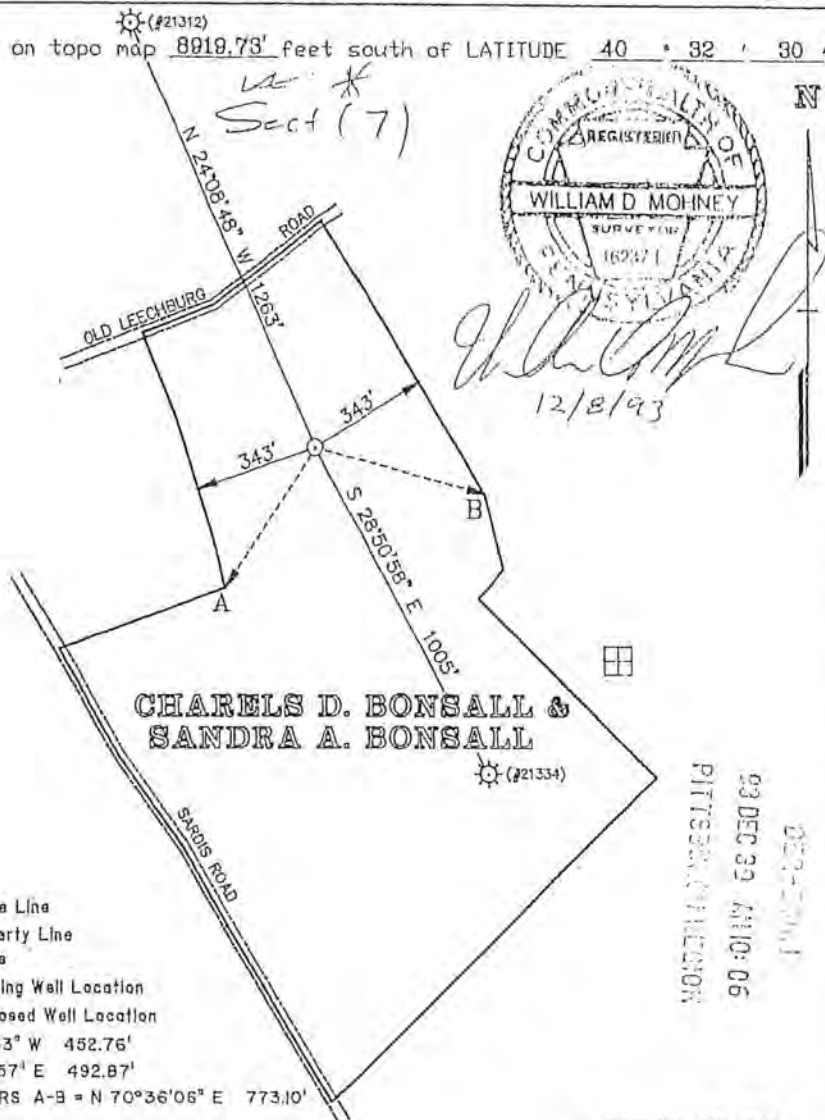
Reviewed By MA 8-5-94 _____ Date _____ Comments _____

FB - 86 - 2 Rev. 1/79
GEO COPY

WELL LOCATION PLAN

003-21341

Well is located on topo map 8919.78' feet south of LATITUDE 40° 32' 30"



Well is located on topo map 3984.90' feet west of LONGITUDE 79° 42' 30"

CHARELS D. BONSALE &
SANDRA A. BONSALE

- Lease Line
- Property Line
- Roads
- ☼ Existing Well Location
- ⊙ Proposed Well Location

LOC-A = S 33°41'33" W 452.76'
LOC-B = S 75°54'57" E 492.87'
PROPERTY CORNERS A-B = N 70°36'06" E 773.10'

DEC 31 11:10:06
PITTSBURGH, PENNSYLVANIA

DEPARTMENT USE ONLY
G 25 C Oct
1/27/94

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2' TOPOGRAPHIC MAP AND WETLANDS WITHIN 100'. REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING.

☒ DENOTES LOCATION OF WELL ON 7 1/2' TOPO MAP PERMIT NO. 37-003-21341-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC. 13 8 25		REVISION ALTERATION STORAGE RECONDITION WELL LOCATION DRILL DEEPER ABANDONMENT REGISTRATION PLUGGING	W.D. MOHNEY & ASSOC.	
Well Permittee/Registrant P.O. BOX 300, 200 U.S. ROUTE 22			Surveyor/Engineer PB-2	
Address DELMONT, PA 15626			Drawing Number 12-04-93	
CHARLES D. BONSALE & SANDRA A. BONSALE			Date 1 INCH = 400 FEET	
Surface Owner N/A		SURFACE LANDOWNER AND WATER PURVEYOR WITH WATER SUPPLY WITHIN 1,000'	Scale	
Surface Lessor (if any) BONSALE			APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY	
Farm Name 2 PB-199		Harold Henson	N 13°00' E	1000'
Well No. 43.78 Tract		Thomas Brown	N 08°00' E	900'
Serial No. 1156'		Ronald DesLauriers	N 00°30' E	750'
Acres NONE		Alexander J. Serakowski	N 01° E	500'
Ground Elevation 3800'				
Anticipated TD ALLEGHENY				
Municipality NEW KENSINGTON, EAST				
Topo Quadrangle Section				
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT		Variable Coal Seams Owner/Operator/Lessee Name of Seam		
		TESONE LAND COMPANY, INC.	60% of UPPER FREEPORT	
		NATIONAL STEEL CORP.	40% of UPPER FREEPORT	
		CHARLES D. BONSALE & SANDRA A. BONSALE	ALL OTHERS	

003-21341

WELL RECORD AND COMPLETION REPORT

Renton Field

In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.

2. In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filed with the Completion Report (see ER-OG-76).

Well Operator PENNECO OIL COMPANY, INC.		Telephone Number (412) 468-8232	
Address 200 Route 22, P.O. Box 300, Delmont, PA			Zip 15626-0300
Permit Number 37-003-21341-00		Project Number	
Farm Name Bonsall #2.	Farm Number	Serial Number PB-199	Acres 43.78
Township Plym Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (Air) <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 03-04-94	Date Drilling Completed 03-11-94
Elevation 1155	Total Depth 3994	7 1/2' Quadrangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Wall	Material Behind Pipe		Packer/Hardware			Date Run
			Type and Amount	Type	Size	Depth		
15"	13 3/8"	34'	Sanded in	N/A	N/A	N/A	03-04-94	
2 1/4"	9 5/8"	604'	Cement-250 sacks, Class A Reg 3% CaCl ₂ + 1/4 # Flake/sack	Float Shoe	9 5/8"	611'	03-07-94	
8 3/4"	7"	2025'	Cement-315 sacks, Class A Reg 3% CaCl ₂ + 1/4 # Flake/sack	Float Shoe	7"	2033'	03-10-94	
6 1/4"			No pipe was installed					

Cement return on surface casing? Yes No

COMPLETION REPORT

Perforation Record			Stimulation Record						
Data	Interval Perforated		Data	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
				WELL WAS NOT TREATED					
				WELL WAS NOT TREATED					

Natural Open Flow 159,940 cfpd	Natural Rock Pressure 362 #	Hours 6	Days 6
After Treatment Open Flow	After Treatment Rock Pressure	Hours	Days

RECEIVED

NOV 2 2 1995

Name, Address, and Telephone Number of Well Service Companies

F. D. Hill Drilling Company-Route 321 South - Kane, PA 16735	PA GEOLOGICAL SURVEY Oil & Gas Geology Division 814-837-6612
Newsco Well Service - 3000 Old Airport Road - Wooster, OH 44691	216-264-8885
Millburton Logging Service - P. O. Box 427 - Indiana, PA 15701	412-479-9016

DRILLER'S LOG OF FORMATIONS

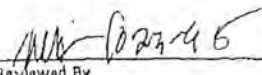
003-21341

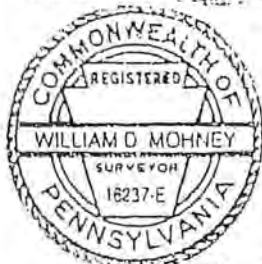
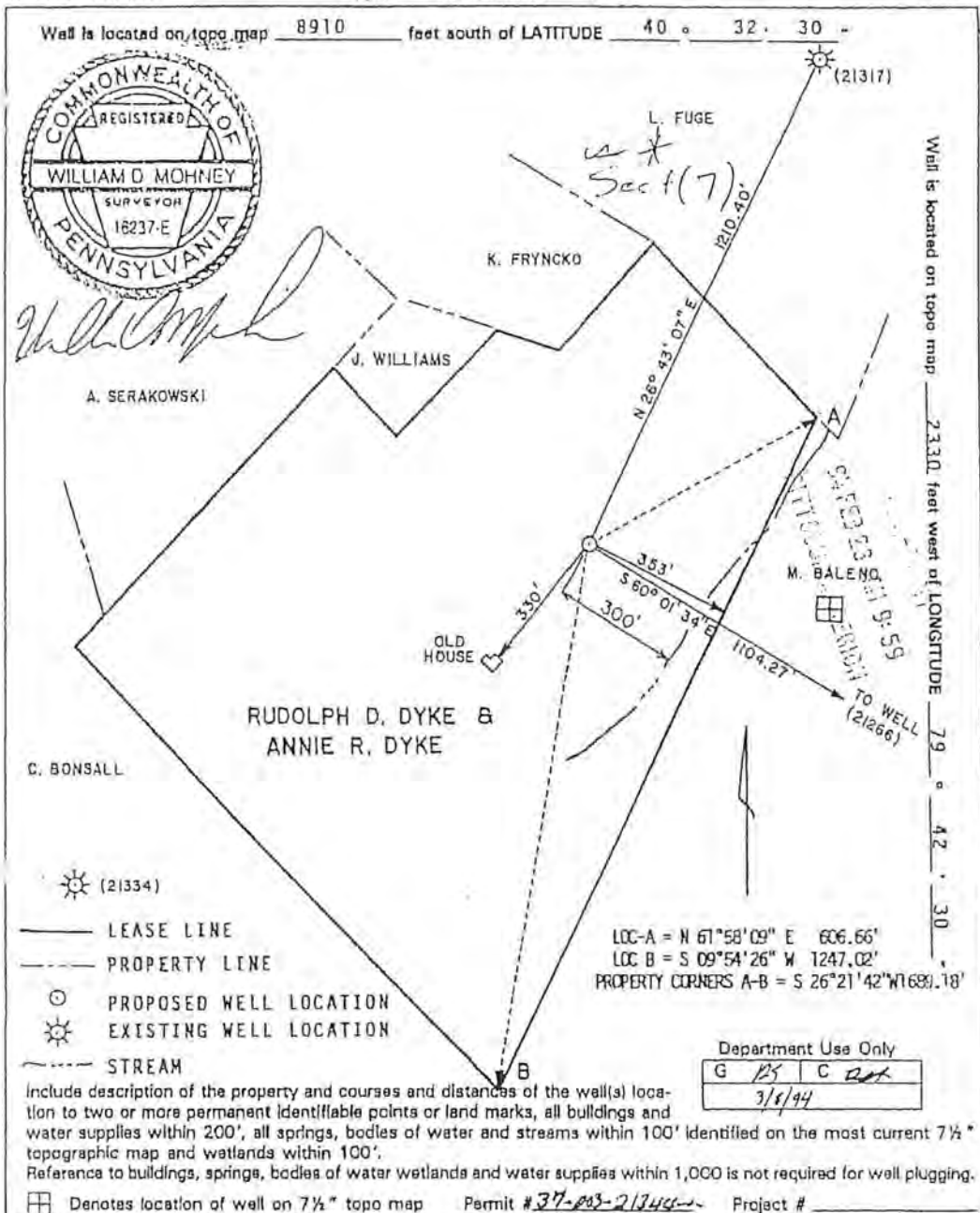
ps 2

Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Shale	0'	0'				Driller's Log
Shale	10'	20'				
Red Bed	20'	25'			Damp @ 60'	
Shale	25'	30'				
Sand	30'	34'				
Sand, Shale, Red Bed	34'	290'				
Sand & Shale	290'	585'				
Clay	585'	592'				
Sand & Shale	592'	613'				
Sand & Shale	613'	900'				
Shale & Sand	900'	1260'			2" Brine @ 1875'	
Shale & Sand	1260'	1550'				
Sand & Shale	1550'	1935'				
Sand & Shale	1935'	1950'				
100' Sand	1950'	2020'		1965'		
Shale	2020'	2045'				
Sand & Shale	2045'	2525'	160 MCF @ 2385'			
Shale & Sand	2525'	2990'				
Sand & Shale	2990'	3400'				
Sand & Shale	3400'	3872'				
Shale & Sand	3872'	3994'				


Vice President
4/12/95
 Operator's Signature Title Date

FOR OFFICIAL USE ONLY


Comments
 Reviewed By Date



William D. Mohney

(21334)

- LEASE LINE
- - - PROPERTY LINE
- ⊙ PROPOSED WELL LOCATION
- ☀ EXISTING WELL LOCATION
- - - STREAM

LOC-A = N 61° 58' 09" E 606.66'
 LOC-B = S 09° 54' 26" W 1247.02'
 PROPERTY CORNERS A-B = S 26° 21' 42" W 1689.18'

Department Use Only
 G 15 | C 20
 3/6/94

Includes description of the property and courses and distances of the well(s) location to two or more permanent identifiable points or land marks, all buildings and water supplies within 200', all springs, bodies of water and streams within 100' identified on the most current 7 1/2" topographic map and wetlands within 100'. Reference to buildings, springs, bodies of water wetlands and water supplies within 1,000 is not required for well plugging.

Denotes location of well on 7 1/2" topo map Permit # 37-003-21344 Project # _____

PENNECO OIL COMPANY, INC. 13825 200 ROUTE 22, P. O. BOX 300 DELMONT, PA 15626-0300		ReVISION <input type="checkbox"/> Alteration <input type="checkbox"/> Storage Recondition <input type="checkbox"/> New Location <input type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/> Registration <input type="checkbox"/> Plugging <input type="checkbox"/>	W.D. MOHNEY & ASSOC. Surveyor/Engineer PD-1 Drawing Number 02-09-94 Date 1" = 300' Scale
Surface Owner N/A		Surface landowner and water purveyor with water supply within 1,000' L. H. FUGE K. J. FRYNCKO J. E. WILLIAMS R. KAZIMER R. D. & A. R. DYKE	
Surface Lessor If any DYKE		Approximate course and distance to water supply N 32° E 1,000' N 36° 30' W 950' N 43° W 600' N 21° W 1,000' S 84° W 600'	
Form Name 1 PD-228		Well No. 37.09 Tract Serial No. 1160	
Acres None Ground Elevation 3800'		Angle of Deviation (Ering) ALLEGHENY Anticipated TO PLUM BOROUGH	
County NEW KENSINGTON EAST Municipality 7		Owner/Operator/Lessee Name of Seams TESONE LAND COMPANY, INC. UPPER FREEPORT R. D. & A. R. DYKE ALL OTHERS	
Topo Quadrangle Section		Commonwealth of Pennsylvania Department of Environmental Resources Bureau of Oil and Gas Management	

Plat
Serl (7)

WELL RECORD AND COMPLETION REPORT

Renton Field

003-21344

- In accordance with 26 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 26 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a plat is to be filed with the Completion Report (see ER-00-75).

Well Operator PENNECO OIL COMPANY, INC.		Telephone Number 412-468-8232	
Address 200 Rt. 22, P.O. Box 300, Delmont, PA 15626			
Permit Number 37-003-21344		Project Number	
Farm Name Dyke #1	Farm Number	Serial Number PD-228	Acres 37.09
Township Plum Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reverse Side)

Drilling Method Rotary (Air <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 05-11-94	Date Drilling Completed 05-18-94
Elevation 1060	Total Depth 3960	7 1/2' Quadrangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe	Packer/Hardware			Date Run
			Type and Amount	Type	Size	Depth	
15"	13 3/8"	34'	Sanded In	N/A	N/A	N/A	05-11-94
12 1/2"	9 5/8"	542'	Cement-220 sacks-Class A Reg. 3/4" Cal. 12 + 1# Cal for lake/sack	Float Shoe	9 5/8"	550'	05-12-94
8 3/4"	7"	1938'	Cement-200 sacks-Class A Reg. 3/4" Cal. 12 + 1# Cal for lake/sack	Float Shoe	7"	1938'	05-17-94
6 1/2"			No Pipe Was Installed				

Cement return on surface casing? yes no

COMPLETION REPORT

Perforation Record			Stimulation Record						
Data	Interval Perforated		Data	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
				WELL WAS NOT TREATED					

Natural Open Flow 265 MCF/D	Natural Rock Pressure 530 PSI	Hours 72	Days
After Treatment Open Flow	After Treatment Rock Pressure	Hours	Days

RECEIVED
NOV 22 1995


Name, Address, and Telephone Number of Well Service Companies	
F.D. Hill Drilling Company - Route 321 South - Kane, PA. 16735	814-837-6612
Nowco Well Service - 3000 Old Airport Road - Wooster, OH 44691	216-264-8885
Allegheny Nuclear Surveys, Inc. - Elderton, PA. 15736	412-354-3050

003-21344

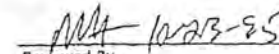
DRILLER'S LOG OF FORMATIONS

Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Clay	0	15				Drillers Log
shale & Red Bed	15	30				
sand	30	34				
red Bed, Sand, Shale	34	110			Damp @ 60'	
sand & Shale	110	500				
job	500	510				
sand & Shale	510	550				
shale & Sand	550	690				
sand & Shale	690	1081				
shale & Sand	1081	1425				
sand & Shale	1425	1770			3" Brine @ 1760	
sand & Shale	1770	1962				
sand & Shale	1962	2000		1895 job At		
red Rock, Shale, Sand	2000	2180				
Sand, Shale	2180	2580				
Shale & Sand	2580	3120	3184			
Sand & Shale	3120	3560				
Sand & Shale	3560					

PS 2


PRESIDENT
5/18/95
 Operator & Signature Title Date

FOR OFFICIAL USE ONLY


Comments
 Reviewed By Date

003-21357

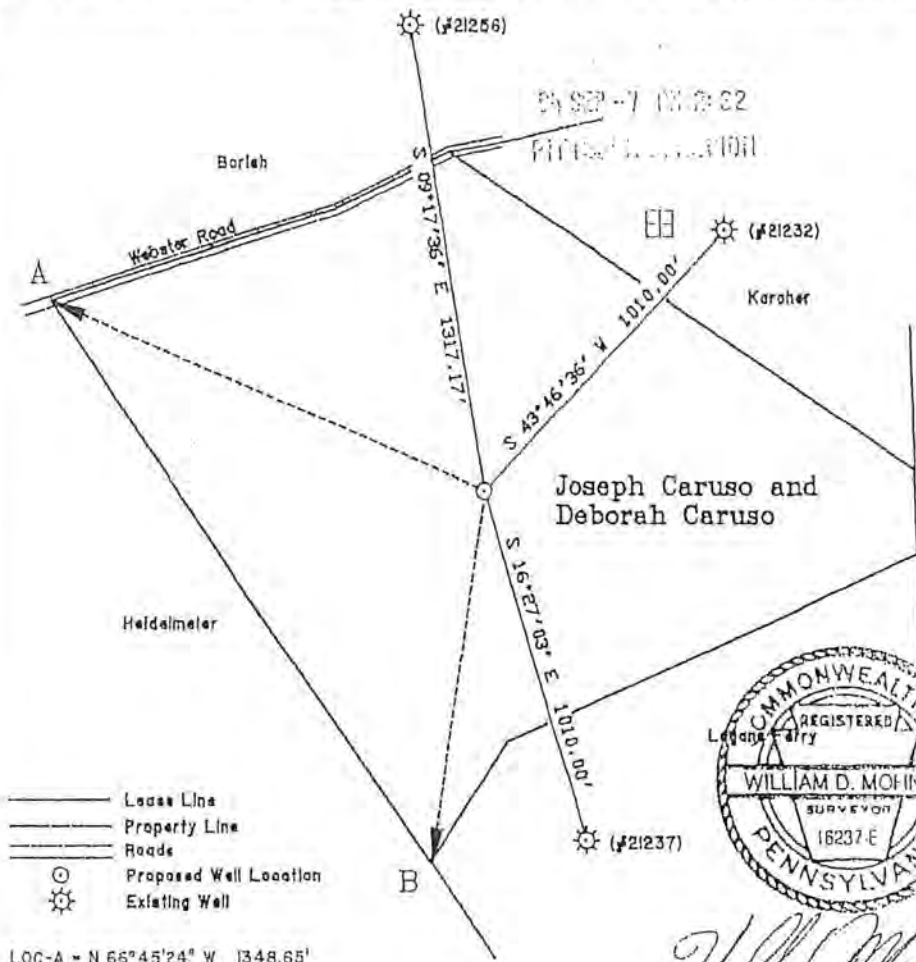
WELL LOCATION PLAT

ER - 09 - 2 - 84 - 2/30

GEO COPY

Well is located on topo map 3880' feet south of LATITUDE 40 ° 32 ' 30 ' ,

Well is located on topo map 5525' feet west of LONGITUDE 78 ° 42 ' 30 ' ,



William D. Mohney

LOC-A = N 66°45'24" W 1348.65'
 LOC-B = S 08°59'40" W 1048.77'
 PROPERTY CORNERS A-B = S 34°30'00" E 1899.15'

DEPARTMENT USE ONLY

G	B	C	DLT
7/21/94			

INCLUDE DESCRIPTION OF THE PROPERTY AND COURSES AND DISTANCES OF THE WELL(S) LOCATION TO TWO OR MORE PERMANENT IDENTIFIABLE POINTS OR LAND MARKS, ALL BUILDINGS AND WATER SUPPLIES WITHIN 200', ALL SPRINGS, BODIES OF WATER AND STREAMS WITHIN 100' IDENTIFIED ON THE MOST CURRENT 7 1/2" TOPOGRAPHIC MAP AND WETLANDS WITHIN 100'. REFERENCE TO BUILDINGS, SPRINGS, BODIES OF WATER, WETLANDS AND WATER SUPPLIES WITHIN 1000' IS NOT REQUIRED FOR WELL PLUGGING

DENOTES LOCATION OF WELL ON 7 1/2" TOPO MAP PERMIT NO. 37-013-21357-00 PROJECT NO. _____

PENNECO OIL COMPANY, INC. <i>13825</i>		<input type="checkbox"/> REVISION <input type="checkbox"/> ALTERATION <input type="checkbox"/> STORAGE RECONDUCTION <input type="checkbox"/> NEW LOCATION <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> ABANDONMENT <input type="checkbox"/> REGISTRATION <input type="checkbox"/> PLUGGING	<input type="checkbox"/> W.D. MOHNEY & ASSOC. Surveyor / Engineer PC-1 Drawing Number 08/10/94 Date 1 INCH = 400 FEET Scale	
Well Permitter / Registrant P.O. BOX 300, 200 U.S. ROUTE 22			<input type="checkbox"/> SURFACE LANDOWNER AND WATER PURVEYOR WITH WATER SUPPLY WITHIN 1,000'	APPROXIMATE COURSE AND DISTANCE TO WATER SUPPLY
Address DELMONT, PA 15628				
Surface Owner N/A			No Water Supplies Within 1000'	
Surface Lessor (if any) CARUSO				
Farm Name 1				
Well No. 55.75 Tract				
Acres NONE				
Angle of Deviation (Drilling) ALLEGHENY				
County NEW KENSINGTON, EAST				
Topo Quadrangle				
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES BUREAU OF OIL AND GAS MANAGEMENT		Workable Coal Seams Owner / Operator / Lessee Younghusband & Ohio Coal Co. J. & D. Caruso Upper Freeport All Others 08/10/94		

3003-21357

WELL RECORD AND COMPLETION REPORT

- In accordance with 25 Pa. Code 78.122(a), a Well Record must be submitted to the Department within 30 calendar days of cessation of drilling or altering a well.
- In accordance with 25 Pa. Code 78.122(b), a Completion Report must be submitted within 30 calendar days after completion of the well. In addition, the information on land application of topsoil water and disposal of residual waste (including contaminated drill cuttings) in a pit is to be filled with the Completion Report (see ER-OG-75).

RENTON FIELD

Well Operator Penneco Oil Company, Inc.		Telephone Number 412-468-8232	
Address 200 RT 22, PO Box 300, Delmont, PA 15626			
Permit Number 37-003-21357-00		Project Number	
Farm Name Caruso	Farm Number 1	Serial Number PC-236	Acres 55.75
Township Plum Borough		County Allegheny County	
Type of Well <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Injection <input type="checkbox"/> Storage <input type="checkbox"/> Disposal <input type="checkbox"/> Other (Specify)			

WELL RECORD
(Include Driller's Log on Reversé Side)

Drilling Method Rotary (Air <input checked="" type="checkbox"/> Mud <input type="checkbox"/> Cable Tool <input type="checkbox"/> Other <input type="checkbox"/> (Specify)	Date Drilling Started 10-21-94	Date Drilling Completed 10-27-94
Elevation 1042	Total Depth 3295'	7K' Quadrangle New Kensington East

CASING AND TUBING RECORD

Hole Size	Pipe Size	Amount In Well	Material Behind Pipe		Packer/Hardware			Date Run
			Type	Amount	Type	Size	Depth	
15"	13 3/8"	35'	Sanded In		N/A	N/A	N/A	10-21-94
12 1/4"	9 5/8"	529'	Cement-185 Sacks-Class A Reg 3% CaCl ₂ +1# Celloflake/Sack	Float Shoe	9-5/8"	537'		10-24-94
8 3/4"	7"	1918'	Cement-300 Sacks, Class A Reg 3% CaCl ₂ +1/4# Celloflake/sack					
6 1/4"			NO PIPE WAS INSTALLED					
Cement return on surface casing? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no								

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated		Date	Interval Treated	Fluid		Propping Agent		Average Injection Rate
	From	To			Type	Amount	Type	Amount	
				WELL WAS NOT TREATED					
Natural Open Flow 103 MCFPD			Natural Rock Pressure 25 PSIG		Hours	Days			
Alter Treatment Open Flow Not Treated			Alter Treatment Rock Pressure Not Treated		Hours	Days			

Name, Address, and Telephone Number of Well Service Companies


F.D. Hill Drilling Company	Route 321 South-Kane, PA 16735	814-837-6512
Nowco Well Service	3000 Old Airport Road, Wooster, OH 44691	216-264-8885
Allegheny Nuclear Surverys, Inc.	Elderton, PA 15736	412-354-3090

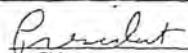
3003-21357
 11/17/94

003-21357

PS 2

DRILLER'S LOG OF FORMATIONS						
Name	Top	Bottom	Gas At	Oil At	Water At (Fresh or Brine)	Source of Data
Fill	0'	8'				Drillers Log
Shale	8'	20'				
Red Bed & Shale	20'	30'				
Sand	30'	35'				
Sand & Shale	35'	48'				
Sand	48'	70'				
Sand & Shale	70'	135'			1/2" Fresh @ 130'	
Red Bed, Sand, Shale	135'	215'				
Sand & Shale	215'	390'				
Shale & Sand	390'	484'				
Gob (Mine)	484'	490'			3" Fresh in mine	
Sand & Shale	490'	538'				
Shale & Sand	538'	783'			2" Brine @ 1755'	
Sand & Shale	783'	1250'				
Sand & Shale	1250'	1600'			2" Brine @ 1780'	
Sand & Shale	1600'	1947'				
Shale & Sand	1947'	2009'				
Shale, Sand, Red Rock	2009'	2471'	2249			
Red Rock, Sand, Shale	2471'	2550'				
Shale & Sand	2550'	3100'				
Sand	3100'	3144'				
Shale & Sand	3144'	3295'				


Operator's Signature


Title

12-18-95
Date

FOR OFFICIAL USE ONLY

Comments

Reviewed By

Date

GEO COPY

003-21438

5500-PW-060002 Rev 3/97



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

DEP USE ONLY	DEP Application Tracking #	033947
	P37#	003-21438-00
	Project #	

Well is located on topo map 4745 feet south of latitude 40° 32' 30"

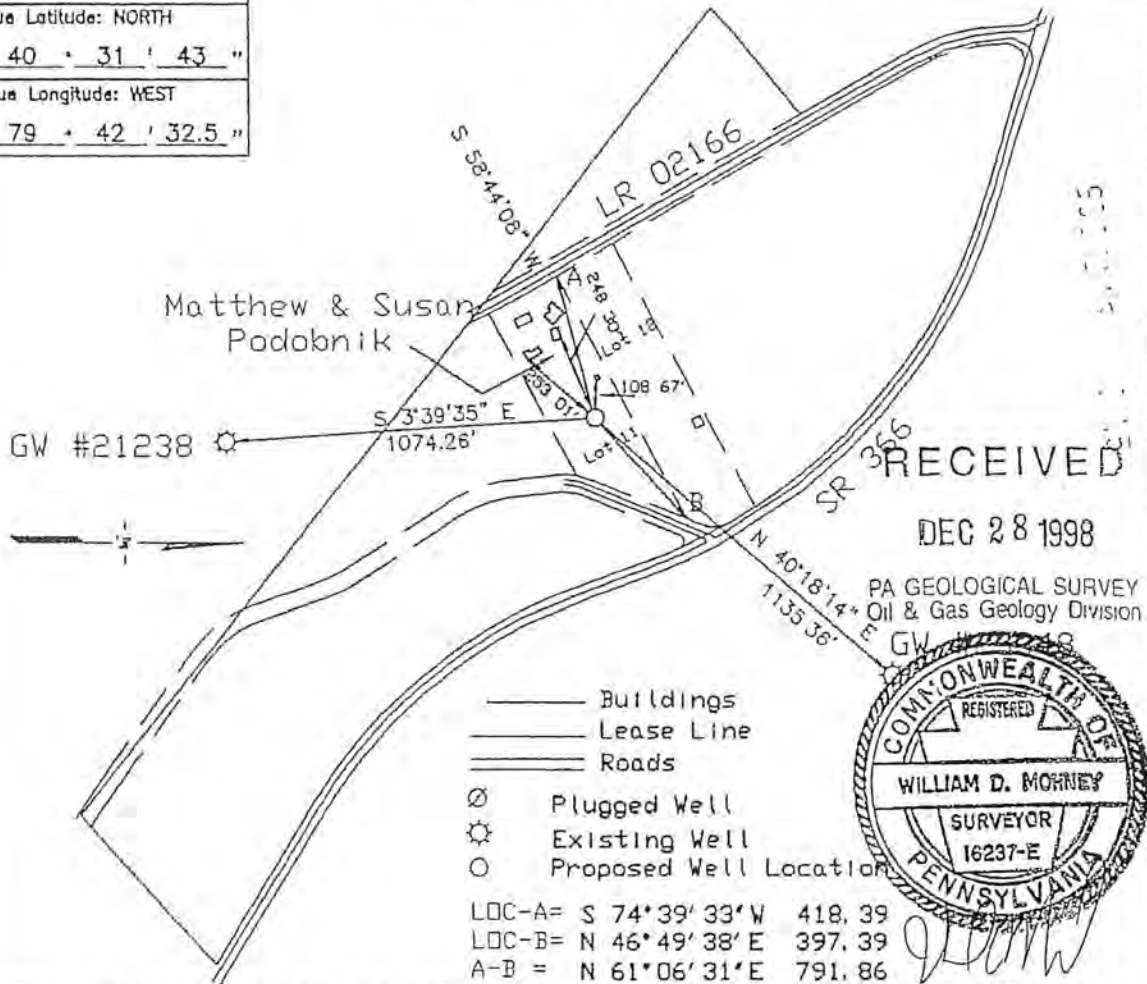
☐ Denotes location of well on topo map.

True Latitude: NORTH
40° 31' 43"

True Longitude: WEST
79° 42' 32.5"

NOTE: CONSOLIDATION COAL COMPANY OWNS THE OIL AND GAS UNDER ALL THE TRACTS LOCATED WITHIN THE LEASED AREA

Well is located on topo map 190 feet west of longitude 79° 42' 30"



NOTE: THE LOCATIONS OF THE ABANDONED GAS WELL No. 81 HAVE BEEN LOCATED ON THE MAPS FROM THE OLD RENTON MINE MAPS DUE TO THE ABSENCE OF ANY EVIDENCE IN THE FIELD.

Surveyor of Engineers: **W.D. MOHNEY AND ASSOCIATES** Dwg # **PCL-8** Date **12-14-98** Scale **1" = 500'** Tract Acreage **57**

Applicant / Well Operator Name PENNECO OIL COMPANY		DEP ID# 7674	Well (Farm) Name CONSOLIDATION COAL COMPANY		Well # 8	Serial # PC-393
Address P.O. BOX 300, 200 US RTE 22, DELMONT, PA 15826			County - Code ALLEGHENY 02	Municipality PLUM BOROUGH		
Surface Owner MATHEW & SUSAN PODOBNIK		USGS 7 1/2 Quadrangle Map Name NEW KENSINGTON EAST		Map Section 7		
Surface Lessor N/A		Angle & Course of Deviation (Drilling) NONE	Surface Elevation 940 ft	Anticipated Total Depth 3800 ft		
Surface Center of Water Prevalence within 3000'	Approximate Course and Distance to Water Supply	Owner, Lessee, or Operator of Marketable Coal Seam	Name of Coal Seam Owned, Leased, or Operated			
SEE ATTACHED LIST		TESONE LAND CO. INC	60% UF			
		NATIONAL STEEL CORP	40% UF			
		CONSOLIDATION COAL CO.	ALL OTHERS			

Get (Renton Mine) Id. Freeport

003-21438

Water Supplies Within 1000'

Gerald Greiner 1520 Menk Road New Kensington, PA 15068	N 30° E	1000'
Lenora Greiner 1510 Menk Road New Kensington, PA 15068	N 30° E	1000'
Louis Trzeciak 203 Menk Road New Kensington, PA 15068	N 60° E	900'
Edward Taylor R.D.#2, Old Leechburg Road New Kensington, PA 15068	S 70° W	300'
Frank Smolenski R.D.#2, Box 325A New Kensington, PA 15068	S 05° W	800'
Raymond Smolenski R D.#2, Old Leechburg Road New Kensington, PA 15068	S 02° W	900'
James R. Flynn 504 Clarendon Road Pittsburgh, PA 15238	S 10° E	1000'
David Maloney 1927 Drennen Road New Kensington, PA 15068	S 40° E	600'
James Smith 1931 Drennen Road New Kensington, PA 15068	S 30° E	850'

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DEC 28 1998

PA GEOLOGICAL SURVEY
Oil & Gas Geology Division



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

003-21438

DEP USE ONLY	
Auth #	APS #
Site #	Facility #
Field/Client #	Sub loc #

WELL RECORD AND COMPLETION REPORT

Well Operator Penneco Oil Company, Inc	DEP ID# 7674	Well API # (Permit / Reg) 37-003-21438-00	Project Number	Acres 57
Address 200 Rt 22, P O Box 300	State PA	Zip Code 15626-0300	Well Farm Name Consolidation Coal Company	Well # 8
City Delmont	County Allegheny	Municipality Plum Boro	Serial # PC-393	
Phone 724-468-8232	Fax 724-468-8230	USGS 7.5 min quadrangle map New Kensington East		

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 01-04-99	Date Drilling Completed 01-12-99	Surface Elevation 940 Ft.	Total Depth - Driller 3773' Ft	Total Depth - Logger 3766 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 Type Size Depth	Date Run
15"	13 3/8"	N/A	Thread	35'	Sanded In with drill cuttings	N/A N/A N/A	01-04-99
12 1/4"	9 5/8"	26#	Thread	434'	Cement - 160 Sacks Class A Reg	Float Shoe 9 5/8" 442'	01-05-99
9 3/4"	7"	17#	Thread	1801'	Cement - 300 Sacks Class A Reg	Float Shoe 7" 1809'	01-07-99
1/4"					No Pipe Was Installed		

COMPLETION REPORT

Perforation Record			Stimulation Record				
Date	Interval Perforated From To		Date	Interval Treated	Fluid Type Amount	Propping Agent Type Amount	Average Injection Rate
				Well was not treated			

AUG 17 2000

Natural Open Flow 198 MCFPD	Natural Rock Pressure 505#	PAGEOLOGICAL SURVEY Subsurface Geology Section	Days
After Treatment Open Flow Well was not treated	After Treatment Rock Pressure Well was not treated		Hours

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

Name	Name	Name
Hill Drilling Company	Superior Well Services	
Address Route 321 South	Address P.O. Box 458	Address
City - State - Zip Kane, Pa 16735	City - State - Zip Blacklick, Pa 15716	City - State - Zip
Phone 714-837-6612	Phone 724-248-1001	Phone

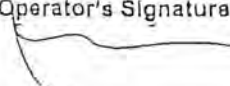
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LOG OF FORMATIONS

Well API# **37-003-21438-00**

Formation Name	Top	Bottom	Gas at	Oil at	Water at (Fresh or Brine)	Source of Data
Shale	0	10				Drillers Log
Sand	10'	15'				
Shale	15'	32'				
Sand	32'	34'				
Sand, Red Bed & Shale	34'	109'				
Sand & Shale	109'	373'			Damp & 55'	
Open Mine	373'	385'			1" Fresh	
Sand & Shale	385'	435'			& 230'	
Sand & Shale	435'	780'				
Shale & Sand	780'	1200'				
Sand & Shale	1200'	1620'				
Shale	1620'	1750'				
100' Sand	1750'	1800'			2" Brine	
Shale	1800'	1817'			& 1620'	
Sand & Shale	1817'	1980'				
Shale & Sand	1980'	2450'	2264'			
Sand & Shale	2450'	2950'				
Shale & Sand	2950'	3550'	3010'			
Sand & Shale	3550'	3773'				

(PC users. Please delete empty rows above as necessary to make all of page 2 fit on one page, if possible. You will need to "unprotect" the form first.)

Well Operator's Signature  Tilla President	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">DEP USE ONLY</td> <td style="width: 50%;"></td> </tr> <tr> <td>Reviewed by</td> <td style="text-align: right;">Date</td> </tr> <tr> <td>Comments</td> <td></td> </tr> </table>	DEP USE ONLY		Reviewed by	Date	Comments	
DEP USE ONLY							
Reviewed by	Date						
Comments							
Date 8/5/99							

003-21644

3500-PW-060002 Rev 3/97



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

DEP Application Tracking #	537645	G.	RB
DEP Permit #	37-003-21644-00	C.	CB
USE ONLY Project #			

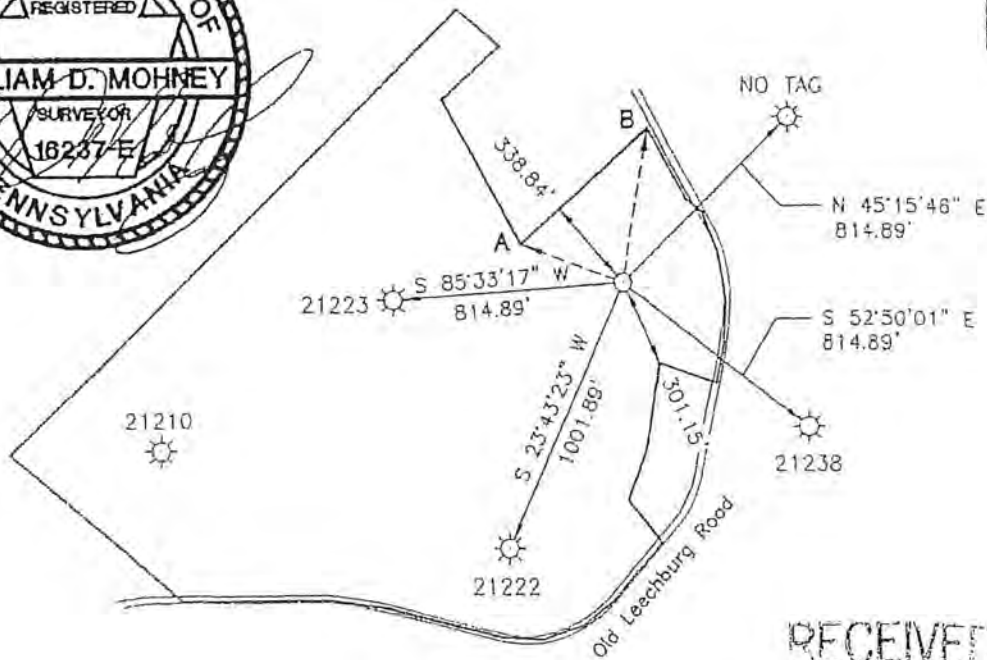
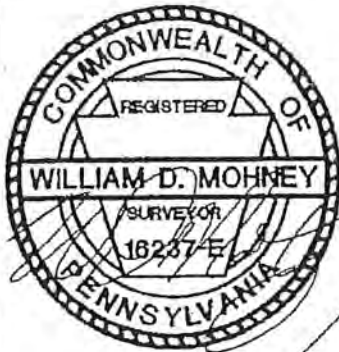
Well is located on topo map 5366.42 feet south of latitude 40 . 32 . 30 "

<input type="checkbox"/>	Denotes location of well on topo map.
True Latitude: NORTH	
<u>40</u> °	<u>31</u> ' <u>36.9</u> "
True Longitude: WEST	
<u>79</u> °	<u>42</u> ' <u>39.7</u> "

Loc-A N 70°03'58" W 384.91'
Loc-B N 09°11'04" E 537.62'
A-B N 48°15'12" E 600.00'

- Proposed Well Location
- Existing Well
- Plugged Well

- Lease Line
- Property Line
- Roads
- Streams/Water



Well is located on topo map

749.80 feet west of longitude 79 . 42 . 30 "

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DEP
Southwest Regional Office

Surveyor of Engineers: **W.D. Mohney & Associates** Dwg. #: **sedatplum** Date: **December 15, 2003** Scale: **1" = 600'** Tract Acreage: **69.54 Acres**

Applicant / Well Operator Name Penneco Oil Company, Inc.	DEP ID# 7674	Well (Form) Name SEDAT	Well # 4 A	Serial # PS-748
Address P.O. Box 300, 200 US Route 22, Delmont PA 15626		County - Code Allegheny - 65	Municipality Plum Borough	
Surface Owner Sadat Inc.	USGS 7 1/2 Quadrangle Map Name New Kensington East, PA		Map Section 7	
Surface Lessor n/a	Angle & Course of Deviation (Drilling) None	Surface Elevation 1068 ft	Anticipated Total Depth 3800 ft	
Surface Owner or Water Provider See Attached Sheet	Approximate Ground and Distance to Water Supply	Owner, Lessee, or Operator of Well Noncoal Area	Name of Coal Seam Owned, Leased, or Operated N/A	
<i>GOB Upper Leechburg Area</i>				

003-21644

SURFACE OWNER OR WATER PURVEYOR
WITH A WATER SUPPLY WITHIN 1000'
OF THE SEDAT #4A GAS WELL LOCATION

	<u>SURFACE OWNER OR</u> <u>WATER PURVEYOR</u>	<u>APPROXIMATE COURSE &</u> <u>DISTANCE TO WATER SUPPLY</u>	
1.	JOHN & MARTHA SLACK	N 5° E	1,000'
2.	MARY C. SCHWARTZ	N 10° E	900'
3.	MATTHEW W. PODOBNIK	N 25° E	700'
4.	EDWARD TAYLOR	N 45° E	500'
5.	BEVERLY SISKOS	N 70° E	600'
6.	RALPH & ETHELYN ANKROM	S 85° E	900'
7.	HERMAN & IRENE VANHORN	N 80° E	800'
8.	JANET & RUSSELL MITCHELL	S 70° E	800'
9.	EARL & JEAN WILKERSON	S 40° E	400'
10.	FRANK T. & MARCIA SMOLENSKI	S 30° E	700'
11.	THEODORE & VIRGINIA SMOLENSKI	S 20° E	600'

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APR 02 2004

DEP
Southwest Regional Office



Client Id	Sub-facility Id
-----------	-----------------

003-21644

WELL RECORD AND COMPLETION REPORT

Well Operator Penneco Oil Company, Inc.	DEP ID# 7674	Well API # (Permit / Reg) 37-003-21644-00	Project Number	Acres 69.54
Address 200 Rt. 22, PO Box 300		Well Farm Name Sedal	Well # 4A	Serial # PS-748
City Delmont	State PA	Zip Code 15626	County Allegheny	Municipality Plum Borough
Phone 724-468-8232	Fax 724-468-8230	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 06/21/04	Date Drilling Completed 06/24/04	Surface Elevation 1068 ft.	Total Depth - Driller 3925 ft.	Total Depth - Logger 3925 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 Type	Size	Depth	Date Run
17"	16"	N/A	N/A	31	sanded in with cuttings	N/A	N/A	31	6/21/04
15"	13 3/8"	48#	thread	302	105 sks Class A Regular	Float Shoe	13 3/8"	302	6/21/04
12"	9 5/8"	29.3#	thread	564	100 sks Class A Regular	Float Shoe	9 5/8"	564	6/22/04
8 3/4"	7"	19.41#	thread	1906	130 sks Class A Regular	Float Shoe	7"	1906	6/24/04
6 1/4"	4 1/2"	9.5#	thread	3886	80 sks Completion Blend Cement	Float Shoe	4 1/2"	3886	6/24/04

COMPLETION REPORT

Perforation Record			Stimulation Record						
Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection Rate
7/19/04	3054	3767	7/19/04	3054-3767	Water	11,634 gal	Sand	10,000#	28.4
7/19/04	3445	3452	7/19/04	3445-3452	Water	15,918 gal	Sand	11,000#	28.4
7/19/04	3132	3163	7/19/04	3132-3163	Water	36,456 gal	Sand	50,200#	26.7
7/19/04	3054	3064	7/19/04	3054-3064	Water	15,246 gal	Sand	15,200#	27.7

PENDING APPROVAL

Natural Open Flow	Not Taken	Natural Rock Pressure	Not Taken	Hours	Days
After Treatment Open Flow	581 MCFPD	After Treatment Rock Pressure	500 PSI	72 Hours	Days

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

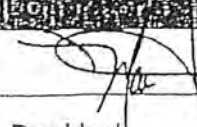
Name	Address	City - State - Zip	Phone
Hill Drilling	P.O. Box 309	Bradford, PA 16701	814-368-3831
BJ Services Company	Route 2, Box 506	Clarksburg, WV 25301	304-624-9802

LOG OF FORMATIONS

Well API#: 37-003-21644

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Clay	0	6				Drillers Log
Shale - R bed	6	30				
Sand	30	34				
Sand & Shale	34	50				
Sand & Shale	50	100			Damp @ 100	
Shale & Sand	100	330				
Shale & Sand	330	440			1" @ 440	
Shale	440	510			3" @ 510	
Mine	510	520				
Shale & Sand	520	577				
Shale	577	760				
Sand & Shale	760	940				
Shale	940	1030				
Sand	1030	1150				
Sand & Shale	1150	1775				
Murrysville	1775	1870			2" @ 1789'	
Shale	1870	1900				
100'	1900	1922				
Sand 100'	1922	1935				
Sand & Shale	1935	2240				
Sand	2240	2245				
Shale & Sand	2245	2300				
5 th Sand	2300	2330				
Shale	2330	2700	Show @ 2335			
Shale	2700	3000				
Sand & Shale	3000	3925				

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

 Title: Vice President		DEP USE ONLY	
		Reviewed by:	Date:
Date: 8/19/84		Comments:	



Client Id

Sub-facility Id

003-21644

WELL RECORD AND COMPLETION REPORT

Well Operator Penneco Oil Company, Inc.		DEP ID# 7674	Well API # (Permit / Reg) 37-003-21644-00	Project Number	Acres 69.54
Address 200 Rt. 22, PO Box 300		Well Fam Name Sedat		Well # 4A	Serial # PS-748
City Delmont		State PA	Zip Code 15626	County Allegheny	Municipality Plum Borough
Phone 724-468-8232	Fax 724-468-8230	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 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 06/21/04	Date Drilling Completed 06/24/04	Surface Elevation 1068 ft.	Total Depth - Driller 3925 ft.	Total Depth - Logger 3925 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 Wall (ft)	Material Behind Pipe Type and Amount	Packer / Hardware / Centralizers Type	Size	Depth	Date Run
17"	16"	N/A	N/A	31	sanded in with cuttings	N/A	N/A	31	6/21/04
15"	13 3/8"	48#	thread	302	105 sks Class A Regular	Float Shoe	13 3/8"	302	6/21/04
12"	9 5/8"	29.3#	thread	564	100 sks Class A Regular	Float Shoe	9 5/8"	564	6/22/04
8 3/4"	7"	19.41#	thread	1906	130 sks Class A Regular	Float Shoe	7"	1906	6/24/04
6 1/4"	4 1/2"	9.5#	thread	3886	80 sks Completion Blend Cement	Float Shoe	4 1/2"	3886	6/24/04

Perforation Record			Stimulation Record						
Date	Interval Perforated From	To	Date	Interval Treated	Fluid Type	Amount	Propping Agent Type	Amount	Average Injection Rate
7/19/04	3054	3767	7/19/04	3054-3767	Water	11,634 gal	Sand	10,000#	28.4
7/19/04	3445	3452	7/19/04	3445-3452	Water	15,918 gal	Sand	11,000#	28.4
7/19/04	3132	3163	7/19/04	3132-3163	Water	36,456 gal	Sand	50,200#	26.7
7/19/04	3054	3064	7/19/04	3054-3064	Water	15,246 gal	Sand	15,200#	27.7

Natural Open Flow	Not Taken	Natural Rock Pressure	Not Taken	DEP, SOUTHWEST REGION
After Treatment Open Flow	581 MCFPD	After Treatment Rock Pressure	500 PSI	72 Hours Days

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



Name Hill Drilling	Name BJ Services Company	Name
Address P.O. Box 309	Address Route 2, Box 506	Address
City - State - Zip Bradford, PA 16701	City - State - Zip Clarksburg, WV 26301	City - State - Zip
Phone 814-368-3831	Phone 304-624-9802	Phone

LOG OF FORMATIONS

Well API#: 37-003-21644

Formation Name or Type	Top (feet)	Bottom (feet)	Gas at (feet)	Oil at (feet)	Water at (fresh / brine; ft.)	Source of Data
Clay	0	6				Drillers Log
Shale - R bed	6	30				
Sand	30	34				
Sand & Shale	34	50				
Sand & Shale	50	100			Damp @ 100	
Shale & Sand	100	330				
Shale & Sand	330	440			1" @ 440	
Shale	440	510			3" @ 510	
Mine	510	520				
Shale & Sand	520	577				
Shale	577	760				
Sand & Shale	760	940				
Shale	940	1030				
Sand	1030	1150				
Sand & Shale	1150	1775				
Murrysville	1775	1870			2" @ 1789'	
Shale	1870	1900				
100'	1900	1922				
Sand 100'	1922	1935				
Sand & Shale	1935	2240				
Sand	2240	2245				
Shale & Sand	2245	2300				
5 th Sand	2300	2330				
Shale	2330	2700	Show @ 2335			
Shale	2700	3000				
Sand & Shale	3000	3925				

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

Well Name: Wilmington		DEP USE ONLY	
Title: 		Reviewed by: 	Date: 1/24/08
Date: 8/19/04		Comments:	
Vice President			

003-21644

PENNECO OIL COMPANY, INC.
Pre-drill Survey

Name John R + Martha J. Slack

Address 2008 Old Leechburg Road

City, State, Zip New Kensington, PA 15068-8324

Day Phone # 724-337-3069 Evening Phone # 724-337-3069

Primary Water Supply

Well (Drilled or Dug)

Spring

Public

Other

Municipal Water Authority of New Kensington

Well Information

Depth 65 ft. Age 50 yrs. Casing Size & Depth ? Don't know.

Location from house (Example: 20' NW) 18' SE

Spring Information

Flow _____ Developed Undeveloped

Secondary Water Supply

See below

Treatment System

Yes No If yes, what type(s)? _____

Any other water supply information?

Yes No

If yes, what type(s)? (Pond or lake for livestock, etc.) _____

Any water abnormality worth noting? Tank in cellar not used - leaked. Intended to use it but illness prevented repair of tanks.

Yes No If yes, please describe.

Even in driest weather well never runs dry. Soft water

Thank you for your help in determining the quality and quantity of your water supply.

Martha J. Slack

Signature of Property Owner

2/10/04

Date

PENNECO OIL COMPANY, INC.
Pre-drill Survey

003-21644

Name VIRGINIA SMOLENSKI
Address 1835 Old Leechburg Rd
City, State, Zip NEW KENSINGTON PA 15068
Day Phone # 724 339-0007 Evening Phone # 724 339-0007

Primary Water Supply

Well (Drilled or Dug)
Spring
Public
Other _____

Well Information

Depth 240' Age 30 Casing Size & Depth 8" ?
Location from house (Example: 20' NW) 30' NW

Spring Information

Flow _____ Developed Undeveloped

Secondary Water Supply

Treatment System

Yes No If yes, what type(s)? _____

Any other water supply information?

Yes No

If yes, what type(s)? (Pond or lake for livestock, etc.) _____

Any water abnormality worth noting?

Yes No If yes, please describe.

Thank you for your help in determining the quality and quantity of your water supply.

Virginia S Smolenski
Signature of Property Owner

2/10/04
Date

PENNECO OIL COMPANY, INC.
Pre-drill Survey

003-21644

Name Frank Smolenski
Address 1900 Old Leechburg Rd
City, State, Zip New Kensington Pa 15068
Day Phone # 412 824-0021 Evening Phone # 724 335-8863

Primary Water Supply

Well (Drilled or Dug
Spring
Public
Other _____

Well Information

Depth _____ Age _____ Casing Size & Depth _____
Location from house (Example: 20' NW) 275' NE

Spring Information

Flow 6-8 Gals per min Developed Undeveloped

Secondary Water Supply

Treatment System

Yes No If yes, what type(s)? _____

Any other water supply information?

Yes No

If yes, what type(s)? (Pond or lake for livestock, etc.) Hand dug well + spring

Any water abnormality worth noting?

Yes No If yes, please describe.

Thank you for your help in determining the quality and quantity of your water supply.

Frank Smolenski
Signature of Property Owner

2/10/04
Date

003-21644

PENNECO OIL COMPANY, INC.
Pre-drill Survey

Name Mary C. Schwartz

Address 4198 Brittany Drive

City, State, Zip Ellicott City MD 21043-6014

Day Phone # (410) 465-5963 Evening Phone # _____

Primary Water Supply

Well * (Drilled * or ~~dug~~)
Spring
Public
Other _____

for property at:
2000 Old Leechburg Rd
New Kensington PA
15068-8324

→ There is a well head on the property but it has not been used for approx. 20 years

Well Information

Depth ? Age 1950? Casing Size & Depth ?

Location from house (Example: 20' NW) 10 feet off long kitchen window-access in basement,

Spring Information

Flow ? Developed Undeveloped

Per conversation with Mr. Smail I mention several springs that come out on the Greensburg Rd (Rt 366) from the back of my property. They are used by the general public.

Secondary Water Supply

None

Treatment System

Yes No If yes, what type(s)? _____

Any other water supply information?

Yes No

If yes, what type(s)? (Pond or lake for livestock, etc.) _____

Any water abnormality worth noting?

Yes No If yes, please describe.

Thank you for your help in determining the quality and quantity of your water supply.

Mary C. Schwartz
Signature of Property Owner

2/13/04
Date

003-21644



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

PERMIT APPLICATION FOR DRILLING OR ALTERING A WELL
Page 2 — Record of Notification / Written Consent

Farm Name - Well # Sedal #4A	
Applicant Name Panneco Oil Company	DEP ID# 7674
DEP USE ONLY	Application Tracking #

List the following: surface landowner; all landowners or water purveyors whose water supplies are within 1,000 feet of this proposed well location; gas storage operators if within 2,000 feet; all coal owners and lessees of all underlying workable coal seams; operators of underground coal mines at the proposed location; and coal operators with a deep mine within 1,000 feet. Mark the boxes, "X", which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties.	Surface Landowner	Coal Owner	Coal Lessee	Coal Mine Operator	Gas Storage Operator	Within 1,000 feet			Notification <i>Note: The means and attach proof.</i>				
						Surf Owner with water	Water Purveyor	Coal Mine Operator	Certified Mail Dates		Address Affidavit	Written Consent	
									Sent	Return Receipt			
Name: Sedat, Inc. Address: P.O. Box 300 Delmont, PA 15626-0300	X								02/06/04				X
Name: John & Martin Slack <i>City Water</i> Address: 2008 Old Leechburg Rd. New Kensington, PA 15068						X			02/06/04	02/04/04			
Name: Mary C. Schwartz - Please <i>Note Survey</i> Address: 4198 Britany Drive Ellicott City, MD 21043						X			02/06/04	02/09/04			
Name: Matthew W. Podobnik <i>724-335-9042</i> Address: 1932 Old Leechburg Rd. New Kensington, PA 15068						X			02/06/04		X		
Name: Edward Taylor <i>U.L.</i> Address: 323 Old Leechburg Rd. New Kensington, PA 15068						X			02/06/04	02/10/04			
Name: Beverly Siskos <i>724-468-3410</i> Address: 275 Rock Springs Rd. Delmont, PA 15626						X			02/06/04	02/10/04			
Name: Ralph & Ethelyn Ankrum <i>412-276-0221 or 412-278-0685</i> Address: 38 Terrace Rd. Carnegie, PA 15106-1053						X			02/06/04	02/07/04			

Optional: Signature below indicates the party's approval of the well location, and waives the 15-day objection period.				Signature below indicates written consent.	
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Owner of water well or building within 200 feet	Date
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Address (of above)	
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	200 Route 22, P.O. Box 300	
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Delmont, PA 15626-0300	
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Owner of water well or building within 200 feet	Date
Surface Landowner at proposed location	Date	Coal Operator within 1,000 feet of proposed location	Date	Address (of above)	
Surface Landowner at proposed location	Date	Gas Storage Operator within 2,000 feet	Date		

003-21644

5500-PM-OG001 Rev. 4/97



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

PERMIT APPLICATION FOR DRILLING OR ALTERING A WELL
Page 2 — Record of Notification / Written Consent

Farm Name - Well # Sadat #4A	DEP ID# 7674
Applicant Name Pennaco Oil Company	Application Tracking #
DEP USE ONLY	

List the following: surface landowner; all landowners or water purveyors whose water supplies are within 1,000 feet of this proposed well location; gas storage operator if within 2000 feet; all coal owners and lessees of all underlying workable coal seams; operators of underground coal mines at the proposed location; and coal operators with a deep mine within 1,000 feet. Mark the boxes, "X", which show the parties' interests. Use additional forms if you need more space. You are required to notify each of these parties.	Surface Landowner	Coal Owner	Coal Lessee	Coal Mine Operator	Gas Storage Operator	Within 1,000 feet			Notification Note the means and attach proof.			
						Surf Owner with water	Water Purveyor	Coal Mine Operator	Certified Mail Dates		Address Affidavit	Written Consent
									Sent	Return Receipt		
Name: Herman & Irene Vanhorn U.L.	Address: 1920 Drennen Rd. New Kensington, PA 15068					X			02/06/04	02/09/04		
Name: Earl & Jean Wilkerson 74-339-2560 ?	Address: 1000 Wright Rd. New Kensington, PA 15068					X			02/06/04	02/09/04		
Name: Frank & Marcia Smolenski Survey	Address: 1500 Old Leechburg Rd. New Kensington, PA 15068					X			02/06/04	02/09/04		
Name: Theodore & Virginia Smolenski Survey	Address: 1835 Old Leechburg Rd. New Kensington, PA 15068					X			02/06/04	02/07/04		
Name: Janet & Russell Mitchell U.L.	Address: 504 Clarendon Street Pittsburgh, PA 15238					X			02/06/04	02/07/04		
Name:	Address:											
Name:	Address:											

Optional: Signature below indicates the party's approval of the well location, and waives the 15-day objection period.				Signature below indicates written consent.			
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Owner of water well or building within 200 feet	Date		
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Address (of above)			
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date				
Water Purveyor or Landowner with water supply within 1,000 ft.	Date	Coal Operator, Owner, or Lessee	Date	Owner of water well or building within 200 feet	Date		
Surface Landowner at proposed location	Date	Coal Operator within 1,000 feet of proposed location	Date	Address (of above)			
Surface Landowner at proposed location	Date	Gas Storage Operator within 2,000 feet	Date				



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

003-21712

DEP USE ONLY	DEP Application Tracking # NC-585600	G: 11605
	Permit # 37-003-21712-00	C:
	Project #	ra1

☐ Denotes location of well on topo map.
True Latitude: NORTH
40 ° 31 ' 17.31 "
True Longitude: WEST
79 ° 43 ' 20.38 "

Well is located on topo map 7356 feet south of latitude 40 ° 32 ' 30 "

LOC - A S 26°-52' E - 596.16'
LOC - B S 73°-00' E - 1498.49'
A - B = N 85°-24' E - 1167.32'
A = CL ROAD & PROPERTY LINE
B = PROPERTY CORNER

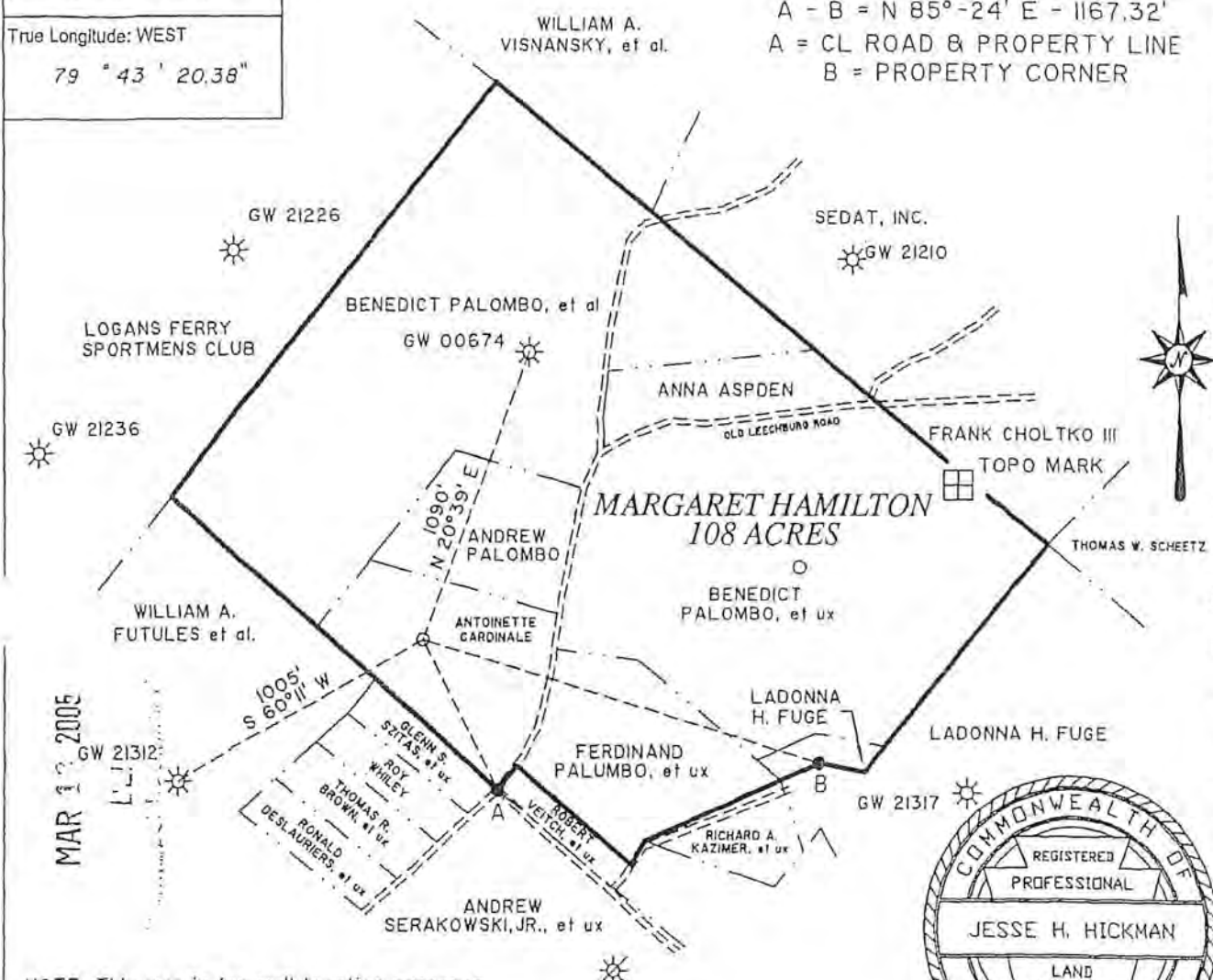
Well is located on topo map

3890

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

Lat. & Long. Method ITPMP Accuracy 0.20" ft. Datum NAD 1927	Elevation Method TOPO Accuracy +/- 20' ft. Datum NAD 27	Survey Date 1-10-05
Applicant / Well Operator Name P C EXPLORATION INC.	Well (Farm) Name MARGARET HAMILTON	Well # 2 Serial # N/A
Address 602 KEYSTONE DRIVE WARRENDALE, PA. 15088	County - Code ALLEGHENY-02	Municipality 133 PLUM BOROUGH
Surface Landowner ANTOINETTE CARDINALE	USGS 7 1/2 Quadrangle 1408 NEW KENSINGTON EAST	Map Section 7
Surface Lessor N/A	Angle & Course of Deviation (Chilling) 0	Surface Elevation 1148
Surface Owner or Water Purveyor with a Water Supply within 1,000 ft.	Approximate Course and Distance to Water Supply	Anticipated Total Depth 5000
E ATTACHED SHEET	NON COAL AREA	Name of Coal Seam Owned, Leased, or Operated N/A

Bob (Villa Coal Co. Hunter Mine / Upper Freeport)



JAN 27 2006

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

003-21712

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 3/4" 622/578	1/3/06
9 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:  Title: Assistant Vice President of Operations Date: 1/26/06	DEP USE ONLY
	Reviewed by: _____ Date: _____ Comments: _____



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

003-21868

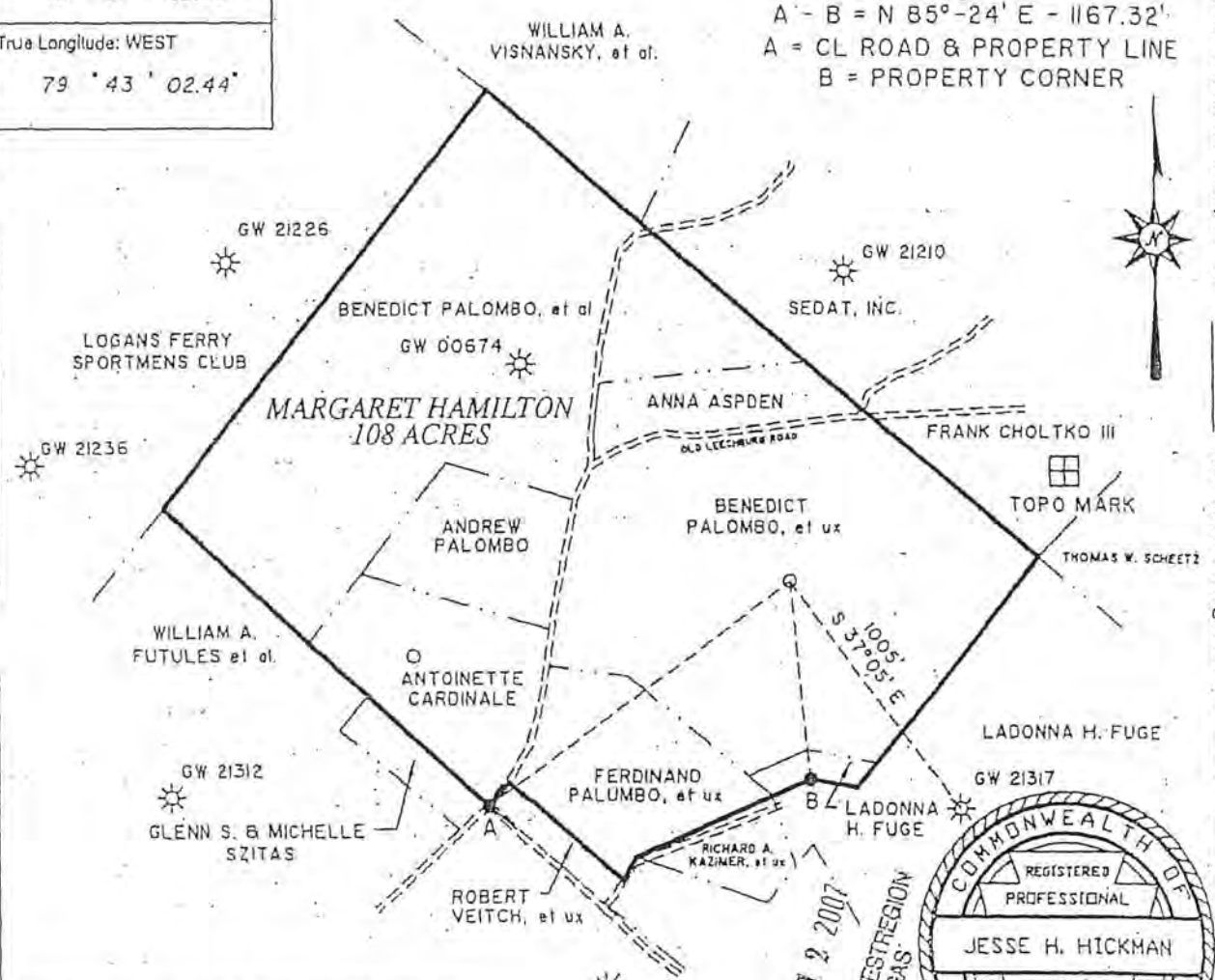
DEP Application Tracking #	NC-664689	G	
USE	37-003-21868-00	C	RAL
ONLY	Project #		

☐ 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 Dwg. # BK 4 PG 43 Date: 2-10-05 Scale 1" = 600 FEET Tract N/A
Engineer: SU - 53654 MHAMILTON-A.DWG. Page 108

Lin. & Long. Method ITPMP Accuracy 0.20" ft Datum NAD 1927	Elevation Method TOPO Accuracy +/- 20' ft Datum NAD 27 Survey Date 1-10-05
Applicant/Well Operator Name P C EXPLORATION INC.	Well(Farm) Name MARGARET HAMILTON 3 N/A
Address 502 KEYSTONE DRIVE WARRENDALE, PA. 15088	County - Code ALLEGHENY-02 Municipality 133 PLUM BOROUGH
Surface Landowner BENEDICT PALUMBO, et ux.	USGS 71/2 Quadrangle Map Name 1408 NEW KENSINGTON EAST Map Section 7
Surface Lessor N/A	Angle & Course of Deviation (Drilling) 0 Surface Elevation 1090 ft Anticipated Total Depth 5000 ft
Surface Owner or Water Purveyor with a Water Supply within 1,000 ft.	Approximate Course and Distance to Water Supply
58 ANNA ASPDEN N 54-02 W 845'	NON COAL AREA
77 RICHARD KAZIMER S 22-43 W 998'	
Name of Coal Seam Owned, Leased, or Operated	
30B (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 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 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 3/4"	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	Speschley	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 -	3Day -
After Treatment Open Flow	118,000 cu ft	After Treatment Rock Pressure	24 Hours-560C/440F	3Day- 566C/678F

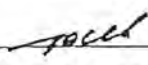
Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

Name Titan Wireline Service	Name Phillips Drilling Company	Name Weatherford	Name BJ Services
Address P.O. Box 284	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	P 2
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	
		Reviewed by:	Date:
Title: Vice President of Operations	Date: 1/3/08	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
City Warrendale	State PA	Zip Code 15086	County Allegheny
Phone 724-772-3500	Fax 724-772-3505	Municipality Plum	
		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 is complete. All performatoms 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? 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 1/2"	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		Date	Interval Treated	Fluid		Propping Agent		Average Injection
	From	To			Type	Amount	Type	Amount	
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

JAN 07 2008
MAR 30 2010
DEP SOUTHWEST REGION
OIL & GAS

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

~~603-21686~~

LOG OF FORMATIONS

Well API#: 37-003-21866

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	
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				
5 th Stray	2302	2337	2314			Wireline Log
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>		Reviewed by:	Date:
Date: 1/3/08		<i>[Signature]</i>	3-17-10
Title:	Date:	Comments:	
Vica President of Operations	1/3/08		



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

003-21963

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

GEO COPY

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

<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

3190

feet west of longitude

79°

42'

30"



JUN 12 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.

Surveyor of Jesse H Hickman Phone # 412-548-0733 Dwg # BK 18 PG 4
Engineer SU - 53654 MHAMILTON-D.DWG

Date 5-19-08

Scale 1" = 600 FEET Tract N/A
Acreage 108

LOC - A N 79°-50' W - 425.52'
LOC - B N 77°-13' E - 763.59'
A - B = N 85°-24' E - 1167.32'
A = CL ROAD & PROPERTY LINE
B = PROPERTY CORNER

Lat & Long Metadata Method ITPMP Accuracy 0.20" Datum NAD 1927		Elevation Metadata Method TOPO Accuracy +/- 20' Datum NAD 27 Survey Date 5-6-08	
Applicant / Well Operator Name P C EXPLORATION INC.		Well(Farm) Name MARGARET HAMILTON	
Address 502 KEYSTONE DRIVE WARRENDALE, PA. 15088		County - Code ALLEGHENY-02	Municipality 133 PLUM BOROUGH
Surface Landowner FERDINAND PALOMBO, et ux.		USGS 7 1/2 Quadrangle Map Name NEW KENSINGTON EAST 14076	
Surface Lessor N/A		Angle & Course of Deviation (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'	Anticipated Total Depth 5000
W-77 RICHARD KAZIMER		Owner, Lessee, or Operator of Workable Coal Seams NO WORKABLE COAL SEAMS	
		Name of Coal Seam Owned, Leased, or Operated	

See Name Survey Area



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 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 3/4"	26 #	Thrd.	673	245 Sacks cement standard	G shoe 9 3/4"	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	23950	Sand	40000	39.0

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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

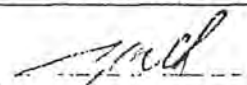
Well Service Companies -- Provide the name, address, and phone number of all well service companies involved.

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	3888	4016				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	Date:	Comments:	
Vice President of Operations	12/12/08		



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 3/8"	26 #	Thrd.	673	245 Sacks cement standard	G shoe	9 3/8" 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	23995	Sand	40000	39.0

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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
--	--	---	---

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
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:

DEP USE ONLY

[Signature]
 Vice President of Operations

Date:
12/12/08

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 7-9-08

DEP Application Tracking #	NC-730995	G	EAB
USE ONLY	Permit # 37-003-21964-00	C	RAL
Project #			

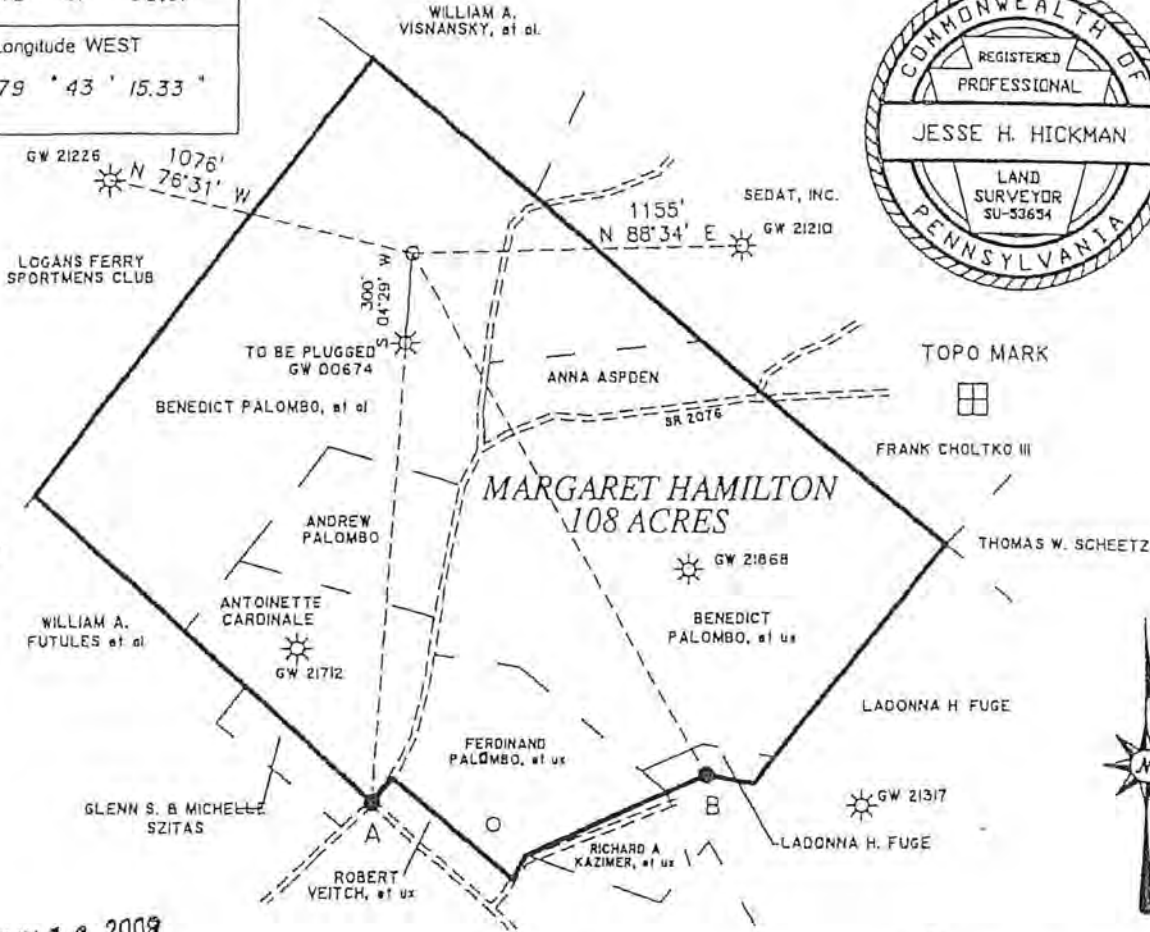
<input type="checkbox"/>	Denotes location of well on topo map
True Latitude NORTH	
40 ° 31 ' 30.61 "	
True Longitude WEST	
79 ° 43 ' 15.33 "	

Well is located on topo map 6010 feet south of latitude 40 ° 32 ' 30 "



Well is located on topo map

3500 feet west of longitude 79 ° 42 ' 30 "



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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
 Engineer SU - 53654 MHAMILTON-C.DWG Acreage 108

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

Lat & Long Method Method ITPMP Accuracy 0.20" Datum NAD 1927	Elevation Method Method TOPO Accuracy +/- 20' Datum NAD 27 Survey Date 5-6-08
Applicant / Well Operator Name P G EXPLORATION INC.	Well (Farm) Name MARGARET HAMILTON Tract # 5 Serial # N/A
Address 602 KEYSTONE DRIVE WARRENDALE, PA. 15086	County Code ALLEGHENY-02 Municipality 133 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	Name of Coal Seam Owned, Leased, or Operated
NO WORKABLE COAL SEAMS	
G08 UPPER FREEPORT BENTON MINE	



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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 # (Perm/ 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 5/8"	26 #	Thrd.	648	275 Sacks cement standard	G shoe/Bsk 9 5/8" 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/64t	3Day - 520c/65t

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

Name	Address	City - State - Zip	Phone
Phillips Drilling Company	799 Old RT 119 N	Indiana, PA 15701	724-465-9130
Superior Well Services	PO Box 360469	Pittsburgh, PA 15251	724-248-1001
Weatherford	PO Box 129	Elderton, PA 15736	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				152
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	Drillers TD
5 th sand	2332	2344				Wireline log
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				Wireline TD
Shale	3884	4052				

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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:

[Signature] 7/16/09
 Title: Vice President of Operations
 Date: 7/16/09

DEP USE ONLY

Reviewed by: _____ Date: _____

Comments: _____



REC-1

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 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: 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 5/8"	26 #	Thrd.	648	275 Sacks cement standard	G shoe/Bsk 9 5/8" 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	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	3188	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/64t	3Day - 520c/65t

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	Weatherford	
Address: 799 Old RT 119 N	Address: PO Box 360467	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				Wireline log
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				

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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:		DEP USE ONLY	
 Title: Vice President of Operations		Reviewed by:  Date: 3-2-10	
Date: 7/18/09		Comments:	



Auth. No. C-870833	TF
Permit # CO3-22187	5-12-11
Project #	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"

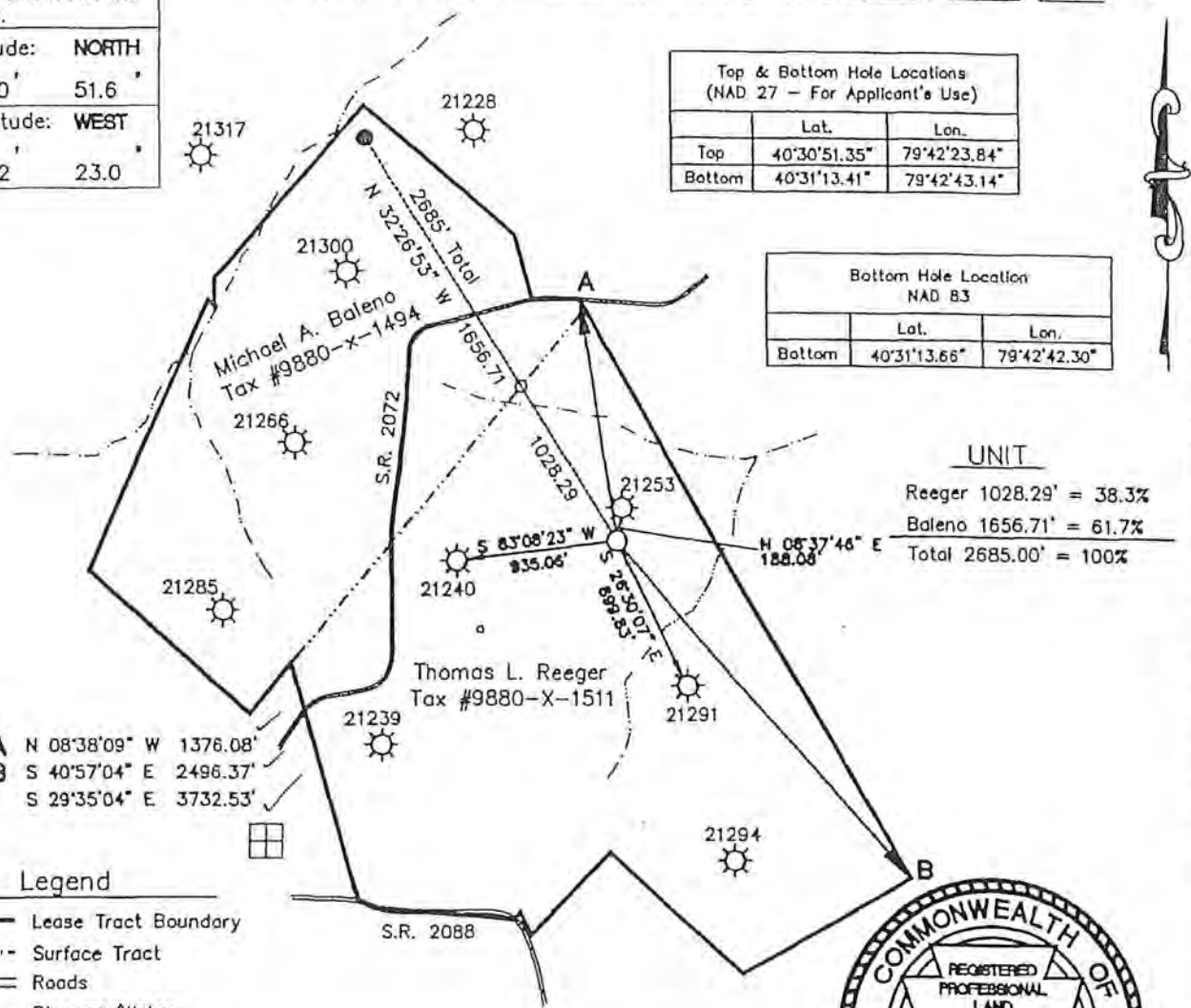
	Lat.	Lon.
Top	40°30'51.35"	79°42'23.84"
Bottom	40°31'13.41"	79°42'43.14"

	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%

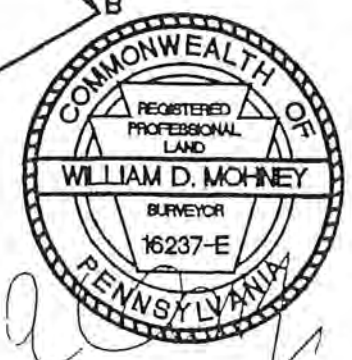
Loc - A N 08°38'09" W 1376.08'
Loc - B S 40°57'04" E 2496.37'
A - B S 29°35'04" E 3732.53'

- 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 #:	Dwg #:	Date: April 15, 2011	Scale: 1" = 1000'	Tract Acres: 268 ±
Lat & Long Metadata Method GPS-Code Based Accuracy 10 ± Datum NAD 83		Elevation Metadata Method U.S.G.S. Plotted Accuracy 30 ± Datum NGVD29		Survey Date Various Dates	
Applicant / Well Operator Name Penneco Oil Company		DEP ID# 7674	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 of Water, Surveyor Thomas L. Reeger		Approximate Course and Distance to Water Supply S 58° W - 950'		Owner, Lessee, or Operator of Workable Coal Seam Consolidation Coal Company Thomas L. Reeger	
				Name of Coal Seam Upper Freeport All Others	

Gas - upper Freeport coal seam



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

003-22187

*Revised 6/1
Revised 8/1
Unrevised P*

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

SURVEY

Well Record

WELL INFORMATION

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: 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"/> 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? Yes No *If No, provide top of cement and method used to determine:*

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

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

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
SOUTHWEST REGION
OIL & GAS

003-22187

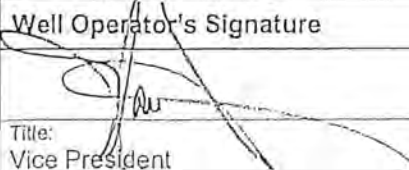
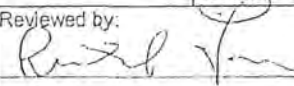
LOG OF FORMATIONS

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 	DEP 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 Routs 22			Well Farm Name Hankey Unit		Well # 8H	Serial # PH-1670	
City Delmont	State PA	Zip Code 15626	County Allegheny		Municipality Plum Borough		USGS 7.5 min. quadrangle map New Kensington East, PA
Phone (724) 468-8232		Fax (724) 468-8230	Email penneco@penneco.com				
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 6 2011
DEP, SOUTHWEST REGION
OIL & GAS

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%	0.05%	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%	0.00%	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%	0.25%	0.25%	0.25%	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	Napthalene	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	14808-80-7	67 - 99.9%	6.48%	7.68%	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%	0.10%	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
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STIMULATION INFORMATION (STAGE)

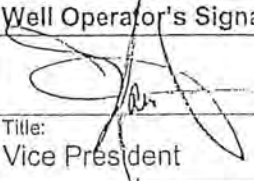

Complete a separate record for each stimulation stage. (Please insert additional copies of this page for additional stages).

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	Reviewed by:	Date:
	 Comments:	2-11-11
Date:		
8/31/11		

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'.

SEP 13 2007

DEP SOUTHWEST REGION
OIL & GAS

SEP 9 2011

DEP SOUTHWEST REGION
OIL & GAS

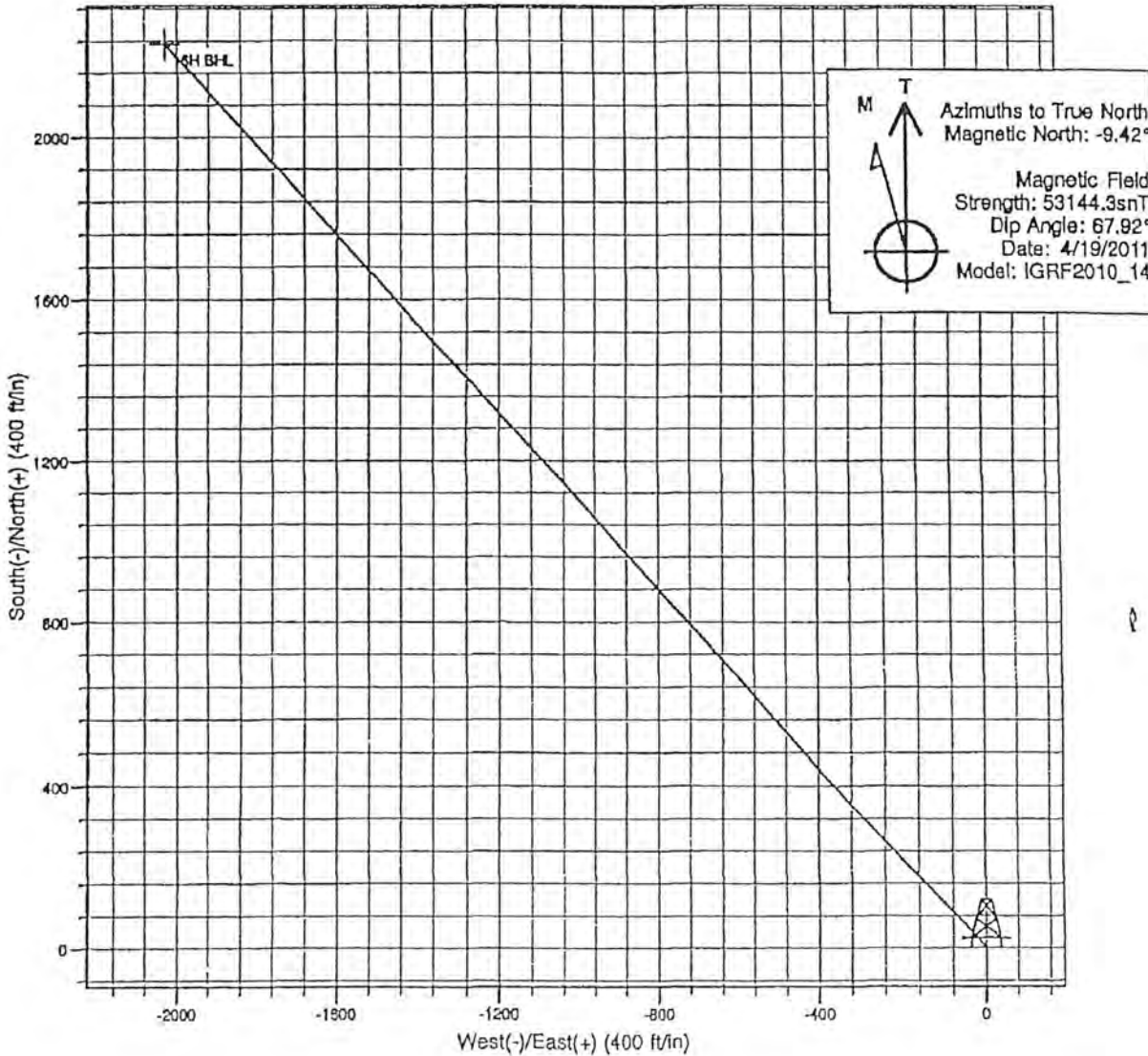
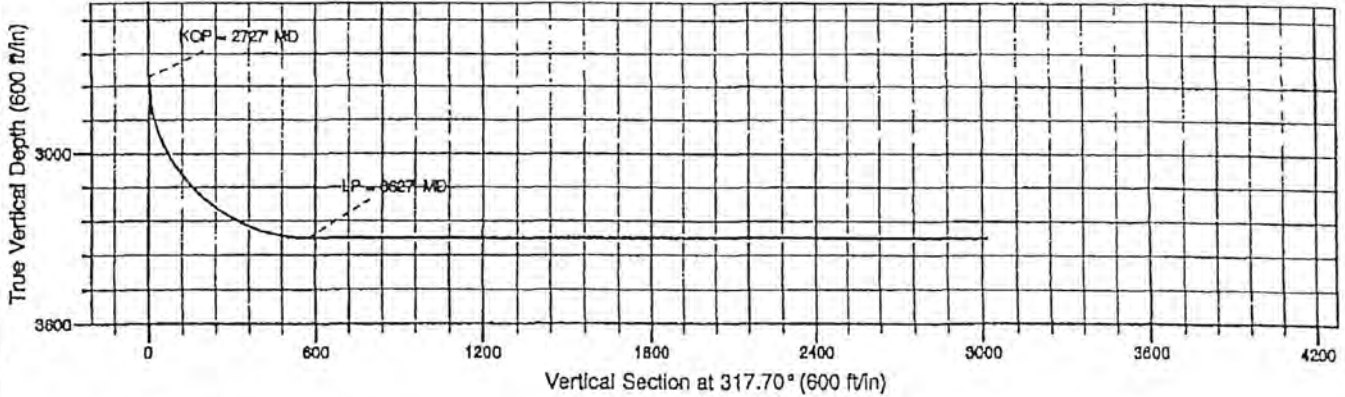
003 - 22187



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-060002 Rev. 9/2008

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

DEP	With # NC-90104	TF
USE	Permit # 003-22200	12+11
ONLY	Project #	RP

<input type="checkbox"/>	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"

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



UNIT BREAKDOWN

Sedat 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	Phone #:	Dist: sardis rd lidar	Date: October 19, 2011	Scale: 1" = 800'	Tract Acreage: 101 ±
Lel & Long Metadata		Elevation Metadata		Survey Date	
Method GPS-Code Based Accuracy 10 ± ft. Datum NAD 83		Method U.S.G.S. Plotted Accuracy 30 ± ft. Datum NGVD29		Various Dates	
Applicant / Well Operator Name: Penneco Oil Company		Well (Farm) Name: SEDAT		Well #	Serial #
Address: 6808 US Route 22, Delmont, PA. 15626		County: Allegheny	Municipality: Plum Borough	5H	PS-1753
Surface Landowner / Lessor: Sedat Inc.		USGS 7 1/2" Quadrangle Map Name: New Kensington East, PA. - 1408		Map Section: 7	Surface Elevation: 1248 ft.
Target Formation(s): Speechley		Angle & Course of Deviation (Drilling): NONE		Anticipated Total Depth ft.: 3340'	
Surfaces Owner or Water Purveyor (Approximate Course and Distance to Water Supply): Frank J. & Marcia M. Smolenski, Theodore & Virginia Smolenski, Frank Choltko III, Daniel Cooper		Owner, Lessee, or Operator of Workable Coal Seam: NON-COAL AREA		Name of Coal Seam Owner, Leased, or Operated: GOB - Renton Mine, Upper Freeport Coal Seam	

003-22200

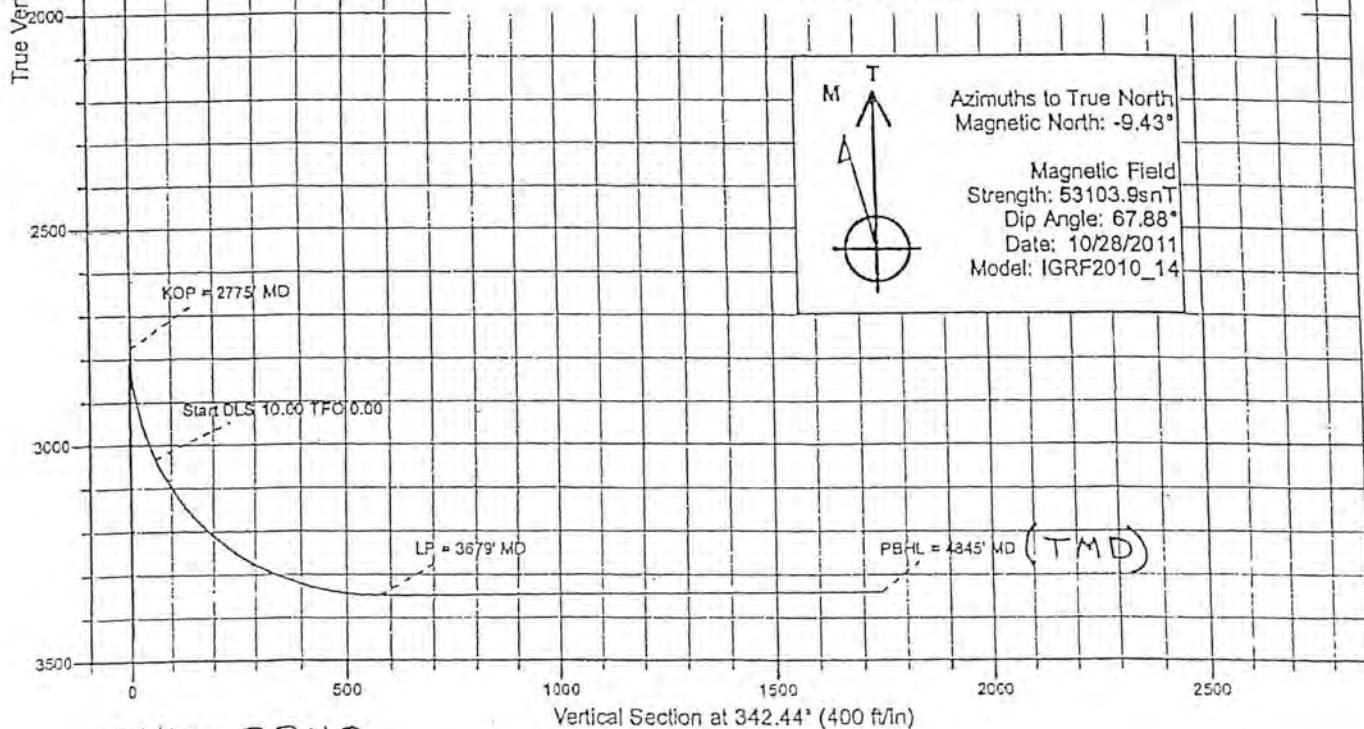
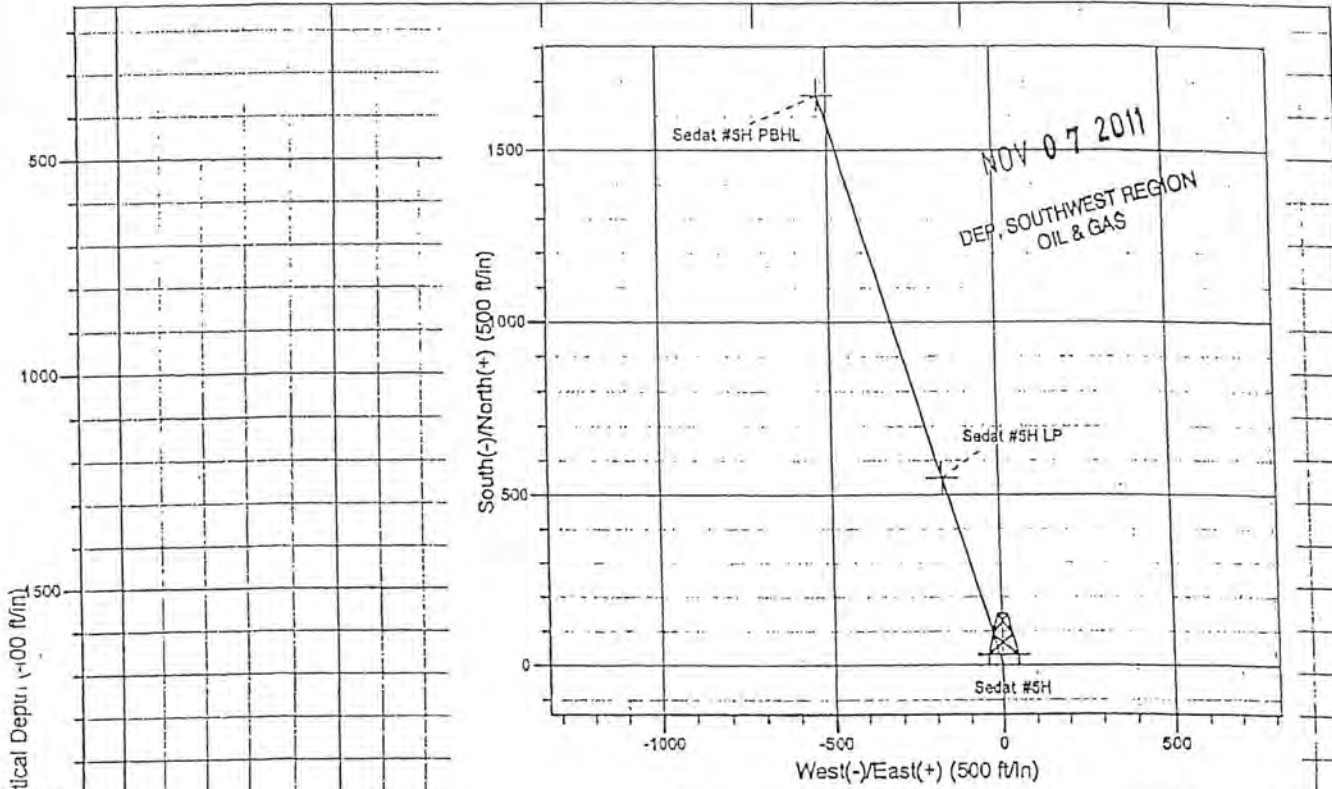


Penneco Oil Company

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



	Azimuths to True North
	Magnetic North: -9.43°
Magnetic Field	
Strength: 53103.9snT	
Dip Angle: 67.88°	
Date: 10/28/2011	
Model: IGRF2010_14	

TVD = 3340
Bottom of Pilot Hole = 3450

003-22200

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:	Penneco Oil Company	TVD Reference:	WELL @ 1256.80ft (Original Well Elev)
Project:	Allagony 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	Allagony 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	Eastng:	1,423,066.00 ft	Longitude:	79° 42' 43.980 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	-1.27 °

Well	Sedat #5H					
Well Position	+N/S	0.00 ft	Northng:	440,348.19 ft	Latitude:	40° 31' 31.750 N
	+E/W	0.00 ft	Eastng:	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	-0.43	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 (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/S (ft)	+E/W (ft)	Dogleg Rate (1/100ft)	Build Rate (1/100ft)	Turn Rate (1/100ft)	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	67.10	-18.07	10.00	10.00	0.00	342.44	
3,878.81	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 8 1 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: Pennaco Oil Company
Project: Allegheny County, PA
Site: Plum Borough #SH
Well: Sedat #5H
Wellbore: Main Wellbore
Design: Plan 1

Local Co-ordinate Reference: Site Plum Borough #SH
TYD Reference: WELL @ 1256.80ft (Original Well Elev)
MO 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	2,894.32	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	26.80	342.44	3,032.34	57.81	-18.30	60.64	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	-26.94	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	-87.44	223.51	10.00	10.00	0.00
3,400.00	62.41	342.44	3,283.87	293.33	-92.83	307.67	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
3,679.79	90.39	342.44	3,348.79	650.04	-174.07	576.92	10.00	10.00	0.00
LP = 3679' MD									
3,679.81	90.39	342.44	3,348.80	650.05	-174.07	576.94	10.00	10.00	0.00
3,700.00	90.39	342.44	3,348.86	669.30	-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	758.97	-240.50	797.12	0.00	0.00	0.00
4,000.00	90.39	342.44	3,348.80	855.31	-270.67	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	1,238.68	-391.35	1,297.11	0.00	0.00	0.00

003-22200

Phoenix Technology Services
Planning Report

Database: NER DB
Company: Pennaco 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

Planned Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N-S (m)	+E-W (m)	Vertical Section (m)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,600.00	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
4,845.78	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
Sadat #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
Sadat #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 (m)	Vertical Depth (m)	+N-S (m)	+E-W (m)	Comment
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	-174.05	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 Farm 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.

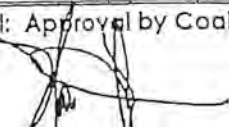
The purpose of this submission is to account for the proximity of the referenced well to the documented boundary of an abandoned deep mine and to offer an alternative casing scenario should the coal isolation segment of the well realize a mine void.

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

Optional: Approval by Coal Owner or Operator

Signature: 

Date: 10/28/11

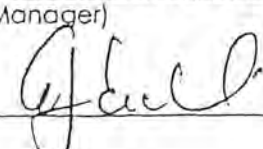
Print or Type Signer's Name and Title:
D. Marc Jacobs

Signature of Applicant / Well Operator

Signature: _____ Date: _____

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 type="checkbox"/> YES, See Attached <input checked="" type="checkbox"/> NO	Date 12/9/11



GEO COPY

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

003-22200 CF

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"	NAD 83	Project Number	Serial # PS-1753	
City Delmont	State PA	Zip 15626-2408	Municipality Plum	County Allegheny		USGS 7.5 min. quadrangle map New Kensington East	
Phone (724)468-8232	Fax (724)468-8230	Email penneco@penneco.com		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:
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	28" Grout (No Conditioning)
Drilling Started	01/12/12 Surface Elev. 1248 ft. GW Depth 700 ft.	20" 8 min / 15 BBL / 1-5 BPM / Gal
Drilling Complete	03/17/12 True Vertical Depth 3343 ft. Depth of DFGW 700 ft.	13 3/8" 5 min / 15 BBL / 1-5 BPM / Gal
Data Well Completed	03/17/12 Total Measured Depth 4850 ft. DFGW decided by 1	9 5/8" 4 min / 10 BBL / 1-5 BPM / Gal
		4 1/2" 4 min / 20 BBL / 4 BPM / SAPP
		4 1/2" 3 min / 10 BBL / 4 BPM / Gal

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	Yld ft ³ / sks	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	15.8	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

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

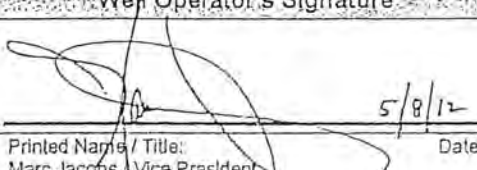

DEP, SOUTHWEST REGION
OIL & GAS

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)349-6823	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	 Date: 5/8/12	Reviewed by:
Address P.O. Box 237		 Comments:
City - State - Zip Rural Valley PA 16249	Printed Name / Title: Marc Jacobs / Vice President	
Phone (724)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

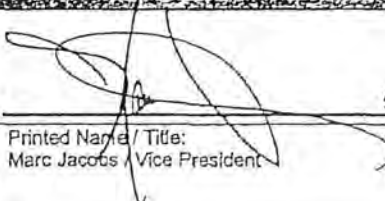
DEP, SOUTHWEST REGION
OIL & GAS

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 Route 286 Hwy. E.	Address 124 Windy Ridge Lane
City - State - Zip Indiana PA 15701	City - State - Zip Punxsutawney PA 15787	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	 5/8/12 Printed Name / Title: Marc Jacobs / Vice President	Reviewed by:
Rig 4 / 8		
Address P.O. Box 237		Date:
City - State - Zip Rural Vallay PA. 16249		
Phone (724)783-7624		

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003-22200 CF

8000-FM-OOGM0004b Rev. 2/2012



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 Sedal	Well # 5H	
Address 8608 Route 22		LAT - 40° 31' 31.7500"	NAD 83	Project Number	Serial # PS-1753
City Delmont	State PA	Zip Code 15826		LONG - 79° 42' 43.9800"	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 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) / Date 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 Shelocta 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:

JUN 11 2012

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DEP, SOUTHWEST REGION
OIL & GAS

DEP, SOUTHWEST REGION
OIL & GAS

003-22200

Well AP# 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 (Ppt)	Comment
ALPHA 3385	Clearwater International LLC	Corrosion Inhibitor	Solvent Naptha (Petroleum), petroleum aromatic	64742-84-5	65 - 100%	0.074%	
ALPHA 3385	Clearwater International LLC	Corrosion Inhibitor	Poly(oxy-1,2-ethanedyl), 8(nonylphenyl)-w-hydroxy- phosolite	51811-79-1	30 - 50%	0.043%	
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 - 60%	0.024%	
EC8115A	Nalco Company	Blockde	Dibromozetion/bila	3252-43-5	1.0 - 5.0%	0.001%	
EC8116A	Nalco Company	Blockde	2,2-Dibromo-3-nitropropionamide	10222-01-2	10.0 - 30.0%	0.004%	
EC8116A	Nalco Company	Blockde	Polyethylene Glycol	25322-68-3	30.0 - 60.0%	0.009%	
Fiomax 50	CESI Chemical	Flow Control	Isopropanol	67-63-0	1 - 15%	0.008%	
Fiomax 50	CESI Chemical	Flow Control	Citrus Terpenes	94268-47-4	1 - 15%	0.000%	
Hydrochloric Acid	Niacor Corporation	Formation Breaker	Hydrochloric Acid	7647-01-0	31 - 33%	0.326%	
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 - 60%	0.001%	DEP. SOUTHWEST REGION
NE-90	Universal Well Services, Inc	Flow Control	Methanol	67-56-1	30 - 60%	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	64742-84-5	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	104-75-7	5.0 - 10.0%	0.006%	
NE-90	Universal Well Services, Inc	Flow Control	Naphthalene	91-20-3	0.1 - 1.0%	0.000%	
Sand	Unimin Corporation	Proppant	Crystalline Silica in the form of Quartz	14808-00-7	87 - 99.9%	5.796%	
SUPER SURF	Clearwater International LLC	Surface Tension Reducer	Methanol	67-56-1	30 - 60%	0.021%	JUN 11 2012
Inigel 3F	Clearwater International LLC	Gelling Agent	Guar Gum	N/A	>95%	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 Data	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							
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JUN 11 2012
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OIL & GAS

003-22205

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

DEP	App-ID #	7F
USE	Permit #	17-10-12
ONLY	Project #	RP

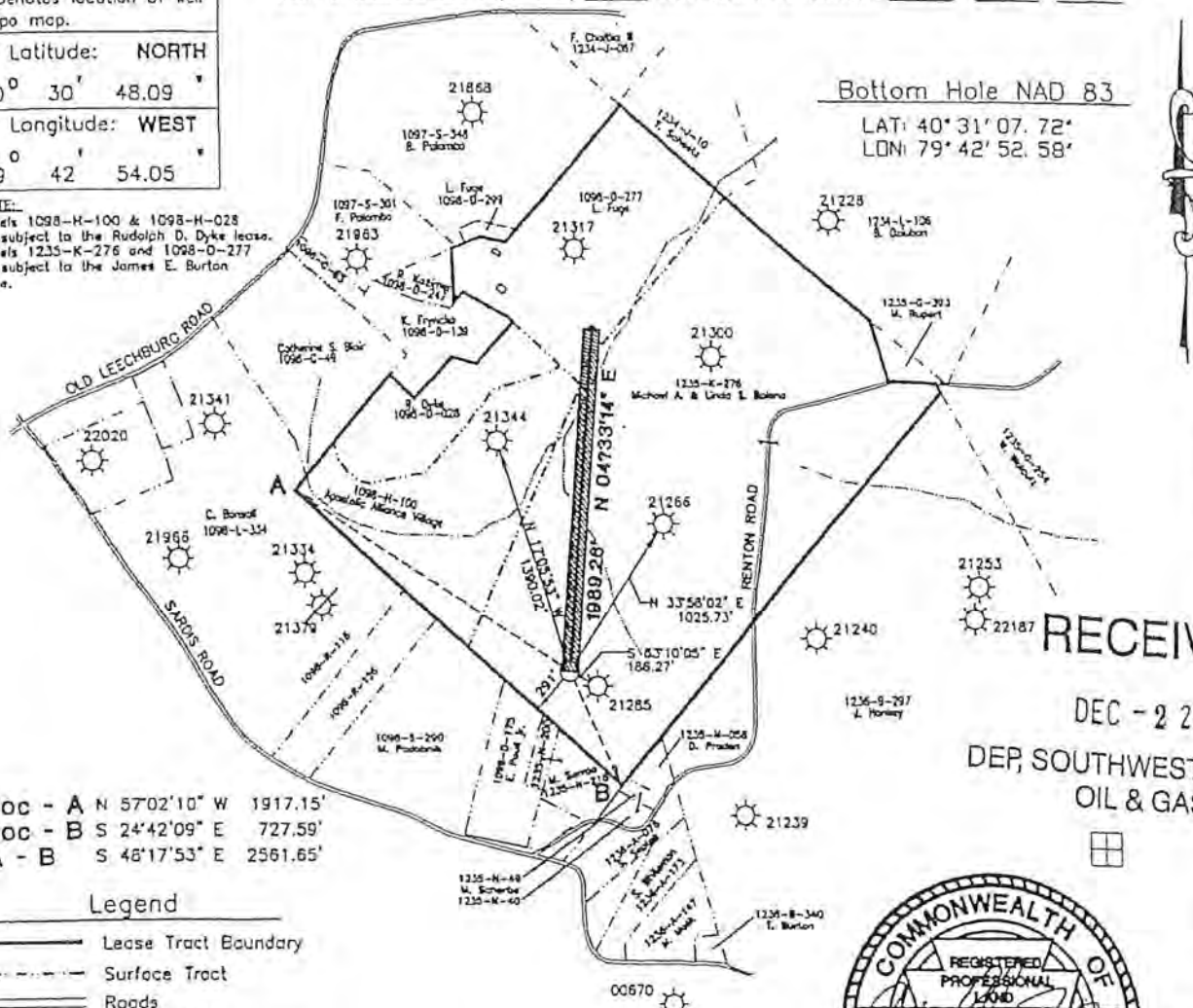
Denotes location of well on topo map.	
True Latitude:	NORTH
40° 30' 48.09"	
True Longitude:	WEST
79° 42' 54.05"	

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 46°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.A.V.)	- 38.4 sq.ft. = 0.02%
James E. Burton (Boleno)	- 176002.4 sq.ft. = 88.47%
Alvin R. & Diane E. Miller (Fuge)	- 22887.1 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 ±

Lat & Long Method: GPS-Code Based Accuracy 10 ± ft. Datum NAD 83	Elevation Method: PA. LIDAR Accuracy 20 ± ft. Datum NGVD29	Survey Date: 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	Well Type: Horizontal Oil
Surface Landowner / Lessor: Michael A. & Linda S. Boleno	USGS 7 1/2" Quadrangle Map Name: New Kensington East, PA. - 1408	Map Section: 7 Surface Elevation: 1168 ft.
Target Formation(s): Speechley	Angle & Course of Deviation (Drilling): N 04°33'14" E - 1989.26'	Anticipated Total Depth ft.: TMD 3286-3310 TMD 5023'
Surface Owner or Water Purveyor/Approximate Course and with a Water Supply within 1000' Distance to Water Supply: NONE	Owner, Lessee, or Operator of Workable Coal Seam: Consolidation Coal Company Michael A. & Linda S. Boleno	Name of Coal Seam Owner, Leased, or Operated: Upper Freeport Seam All Others

Gob-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



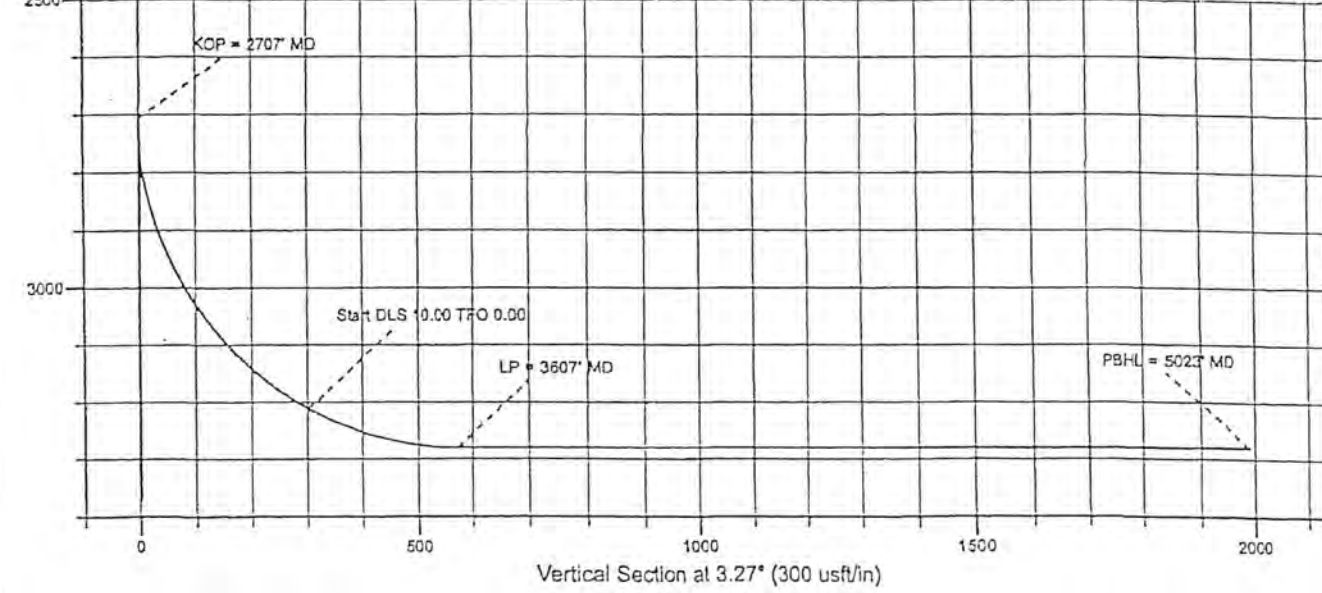
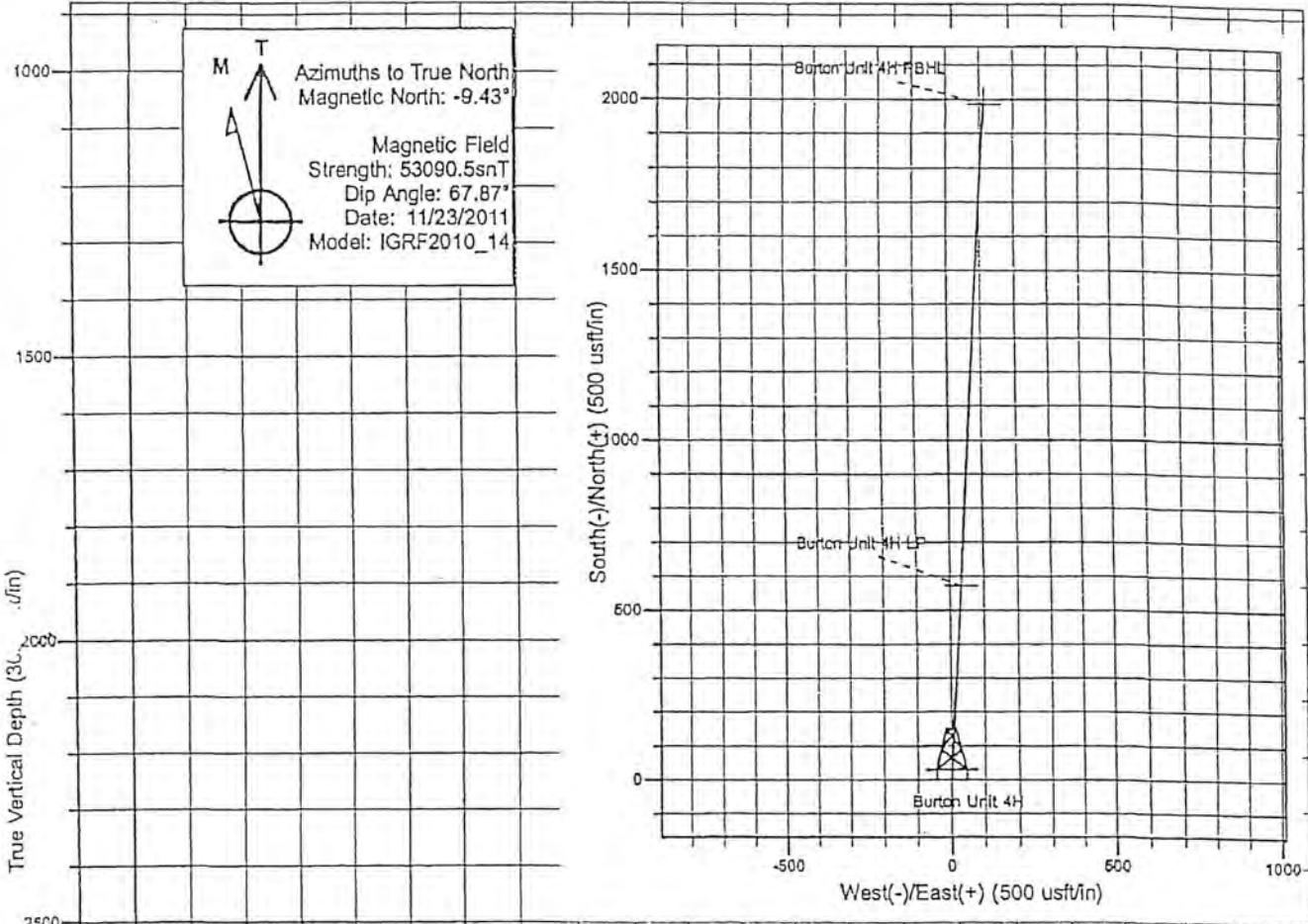
PHOENIX
TECHNOLOGY SERVICES USA INC.

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



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

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OIL & GAS

Phoenix Technology Services
Planning Report

003-22205

Database:	NER DB v5000	Local Co-ordinate Reference:	Site Plum Borough 4H
Company:	Pennaco 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	Eastng:	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	Eastng:	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
	IGRF2010_14	11/23/2011	(°)	(°)	(nT)
			-9.43	67.87	53,090

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

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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: Pennco 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)	
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	2,799.5	7.5	0.4	7.5	10.00	10.00	0.00	
2,900.0	19.30	3.27	2,895.4	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	129.5	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	15.0	280.4	10.00	10.00	0.00	
3,323.5	61.55	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	25.5	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	
3,507.1	90.00	3.27	3,280.0	572.1	32.7	573.0	10.00	10.00	0.00	
LP = 3607' MD										
3,700.0	90.00	3.27	3,280.0	654.9	38.0	655.9	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	964.4	55.1	965.9	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	
4,500.0	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: Pennoco 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	1,966.5	113.5	1,989.7	0.00	0.00	0.00

PBHL = 5023' MD

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Burton Unit 4H LP - hit/miss target - Shape - 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	1,966.5	113.5	437,930.96	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 DLS 10.00 TFO 0.00
3,607.1	3,280.0	572.1	32.7	LP = 3607' MD
5,023.8	3,280.0	1,966.5	113.5	PBHL = 5023' MD

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

003-22206

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
		Serial # PB-1752
		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.

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.

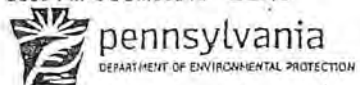
DEP USE ONLY		
Approved by: (DEP Manager) 	Conditions: <input checked="" type="checkbox"/> YES, See Attached <input type="checkbox"/> NO	Date 1/11/12

for Alan Kuchle

003-22205 *Transp & S*
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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 Route 22		LAT 40°30' 48.0900" LONG - 79°42' 54.0500"	Project Number NAD 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 26" GROUT (No Conditioning)
Well Orientation <input type="checkbox"/> Vertical <input checked="" type="checkbox"/> Deviated from Vertical (Top & Side views & Deviation Survey must be attached)	20" 5 min / 15 BBL / 3-5 BPM / Gel-Bar
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	13 3/8" GROUT (No Conditioning)
Drilling Started 02/12/12	9 5/8" 15 min / 70 BBL / 3-5 BPM / Gel
Drilling Complete 06/23/12	4 1/2" 5 min / 20 BBL / 3.5 BPM / SAPP
Date Well Completed 06/24/12	4 1/2" 5 min / 20 BBL / 3.5 BPM / Gel

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If No, provide depth to top of cement and method used to determine:	610' - Wireline Basket @ 560' <input checked="" 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 BPG	Yield ft/sk	Gas Migration Controls Used
Conductor	CLAA, 3%cc 1/4# flake	37 °	40 / 0 / 40	8	15.6	1.18	What controls were used if any (additives/hardware. Specify type and depth applicable): Gas Block for intermediate string cement
Surface	CLAA, 3%cc 1/4# flake	37 °	310 / 0 / 310	8	15.6	1.18	
Coal Protective	CLAA, 3%cc 1/4# 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

JUL 3 2012
DEP, SOUTHWEST REGION
OIL & GAS

JUL 3 2012
DEP, SOUTHWEST REGION
OIL & GAS

003-22205

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		

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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)354-3090

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 16249		City - State - Zip Carmil IL 62821		Comments:	
Phone (724)783-7624		Phone (618)382-4667			