



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 05, 2014

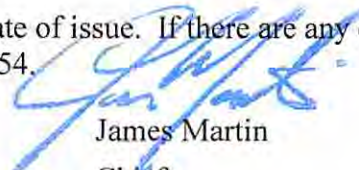
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-5300166, issued to ENERVEST OPERATING L. L. C., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 916
Farm Name: FISHER, DOLLY & RALPH
API Well Number: 47-5300166
Permit Type: Plugging
Date Issued: 11/05/2014

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

1) Date _____, 20____
2) Operator's
Well No. Fisher, Dolly #1 916
3) API Well No. 47-053 - 00166

47-053-00166P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ ShallowX

5) Location: Elevation 850' Watershed Little Horse Cave Run
District Union County Mason Quadrangle Cottageville (7.5) Ravenswood (15)

6) Well Operator EnerVest Operating, L.L.C. 7) Designated Agent Barry K. Lay
Address 300 Capitol Street, Suite 200 Address Same
Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Jamie Stevens 9) Plugging Contractor Name R. L. Wharton Enterprises LTD
Address 105 Kentuck Road Address 261 Shiloh Lane
Kenna, WV 25248 Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows: *Emitted from Well Records*
Mobilize equipment to site. Rig-up rig.
6% Gel 4906' to 0 Use type 1 cement in all plugs
Cement 4906' to 4400'; Cement 2600' to 2400';
Cement 100' at 4 1/2" pipe cut estimate 2400' *4865' of 4.5 225SX*
Cement 100' at 7" casing free point estimate 1850' *2538' of 7" 75SX*
Cement 100' at elevation 850'; Cement 320' to 220'; Cement 100' to 0. *264' of 9 5/8 CT5*
Erect a monument with the API number attached. *pull 4 1/2 if unable to cut*
Note: Well records included. *move up 100' intervals*
same if unable move up.
cut 3" full 7"
OK.
include date of plugging 9 5/8 CT5
OK.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *Jamie Stevens* Date *9/11/2014*

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WV Department of Environmental Protection



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary XXX Oil _____
Cable _____ Gas XXX
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Cottageville

Permit No. 47-053-166

Company DEVON CORPORATION
Address Box 1433, Charleston, WV
Farm Dollie O. Fisher Acres 74
Location (waters) Little Horse Cave Run
Well No. 916 Elev. 850
District Union County Mason
The surface of tract is owned in fee by _____
Ralph & Dollie Fisher
Address Box 8, Evans, WV 25241
Mineral rights are owned by Same as above
Address _____
Drilling Commenced August 29, 1979
Drilling Completed September 7, 1979
Initial open flow 40 MCFD ~~xxxx~~ bbls.
Final production 3,033 MCFD ~~xxxx~~ day bbls.
Well open 22 hrs. before test 1700 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8	264	264	125 sax=to surf.
8 5/8			
7	2538	2538	75 sax=650'
5 1/2			
4 1/2		4865	225 sax=2400'
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

4 1/2" casing perforated 4791 to 4793 with 16 shots.

Frac Oriskany Sand with 52,500# sand and 955 BBLS water.

Coal was encountered at None reported Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Oriskany Sand Depth 4791 to 4793

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			0	155		
Sand			155	180		
Shale			180	235		
Sand			235	308		
Shale			308	480		
Sand			480	505		
Shale			505	965		
Broken Sand			965	1015		
Shale			1015	1160		
Salt Sand			1160	1257		
Shale			1257	1345		
Sand			1345	1410		
Shale			1410	1480		
Sand			1480	1535		
Shale			1535	1690		
Broken Sand			1690	1765		
Shale			1765	1830		
Maxon Sand			1830	1865		
Big Lime			1865	1988		
Shale			1988	2038		
Injun Sand			2038	2179		
Shale			2179	2483		
Coffee Shale			2483	2504		
Berea Sand			2504	2517		

*100' to surface
Elev 850'*

*2400' cont.
2600'*

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(over)

* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Shale			2517	3682		
Br. Shale			3682	4140		
Shale			4140	4540		
Marcellus Shale			4540	4693		
Onondaga L. S.			4693	4766		
Oriskany Sand			4766	4794		
Helderberg L. S.			4794	4906		
Log Total Depth				4906		

gel
 4400'
 4400 to 2600'
 1 Conat
 4906

47-053-01 Kelet.
 Envest
 plugging
 James
 9/11/2014

Date OCTOBER 11 1979

APPROVED Det. G. G. Gause Owner

By District GEOLOGIST
 (Title)

11/07/2014

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION**

- 1) Well Operator: Quinoco Petroleum, Inc.
- 2) Operator's Well Number: Dollie Fisher 916 3) Elevation: 850'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Berea/Brown Shale
- 6) Proposed Total Depth: ±4140 feet
- 7) Approximate fresh water strata depths: None reported
- 8) Approximate salt water depths: None reported
- 9) Approximate coal seam depths: None reported
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Recomplete well in the Berea and Brown Shale. (Work Procedure attached)
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water	9 5/8"			264	264	100 sxs to surface
Coal						
Intermediate	7"			2538	2538	75 sxs
Production	4 1/2"				4865	2530' by log
Tubing					4771	
Liners						

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond _____ Agent
 (Type)

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Department
 of Environment

11/07/2014

Dollie Fisher Well #916
API 47-053-166

PROCEDURE

1. Move 3-300 bbl frac tanks on location and fill with water.
2. Move in and rig up a service rig, pull and talley tubing.
3. On wire line, set a drillable bridge plug at 2535' and perforate the 4 1/2" casing with 4 shots at 2520'.
4. Break circulation between the 4 1/2" and 7" casing strings with gel.
5. Bull head squeeze 60 sacks neat cement through the perforations and wait on cement 24 hours.
6. Run GR Correlation, CBL and VDL logs and determine the cement top.
7. Drill out cement and bridge plug.
8. On wire line, set a drillable plug at 4200' and with bailer dump 10' Cal Seal cement on the plug.
9. In acid and using select fire, perforate the Brown Shale interval.
10. Foam frac the Shale interval injecting 1000 sxs 20/40 sand.
11. Perforate the Berea interval using 3 1/8" Hollow Gun and DML charges and set a small mouth frac plug at + 2565'.
12. Water frac the Berea interval injecting 450 sxs 20/40 sand.
13. Flow the well back, drill out the frac plug and test.

*Plugging
Mason
County
Well:
Drilled in
1979
JES.*

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West Virginia Dept
of Environment & Natural Resources

11/07/2014

MR-35



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State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date 4-4-90
Operator's
Well No. 916
Farm Fisher
API No. 47 - 053

WELL NO.	<u>MASHM 166</u>
MAP NO.	<u>01-26</u>
SOUTH	<u>3</u>
EAST	<u>2</u>
0866	

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___
(If "Gas," Production ___ / Underground Storage ___ / Deep ___ / Shallow x /)

LOCATION: Elevation: 850.0 Watershed Little Horse Cave Run of 13 Mile Creek
District: Union County Mason Quadrangle Cottageville

COMPANY Quinoco Petroleum, Inc
 ADDRESS P. O. Box 1433, Charleston, WV
 DESIGNATED AGENT Bill W. Backus
 ADDRESS Same
 SURFACE OWNER Ralph & Dollie Fisher
 ADDRESS Box 8, Evans WV 25241
 MINERAL RIGHTS OWNER Same
 ADDRESS _____
 OIL AND GAS INSPECTOR FOR THIS WORK Jerry
Tenhack ADDRESS Rt. 1, Box 101A Ripley, WV
 PERMIT ISSUED 2-14-89
 DRILLING COMMENCED 7-31-89
 DRILLING COMPLETED 3-5-90
 IF APPLICABLE: PLUGGING OF DRY HOLE ON
 CONTINUOUS PROGRESSION FROM DRILLING OR
 REWORKING. VERBAL PERMISSION OBTAINED
 ON _____

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	264	264	To surface
8 5/8			
7	2538	2538	75 sxs
5 1/2			
4 1/2		4865	225 sxs
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale/Berea Depth 4137 feet
 Depth of completed well _____ feet Rotary ___ / Cable Tools ___
 Water strata depth: Fresh _____ feet; Salt _____ feet
 Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3690'-4137' feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 19.0 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure 990 psig (surface measurement) after 72 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation _____ Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure _____ psig (surface measurement) after _____ hours shut in

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 MASON COUNTY
 SEP 1 1990
 DEPT. OF OIL & GAS

11/07/2014

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1. Set drillable bridge plug at 4240'. Perforated 4 1/2" casing and squeezed 50 sxs neat cement. Top of cement behind 4 1/2" - 1822'
2. Perforated Brown Shale 3690'-4137' with 34 shots. Foam frac with 302 bbls water 750 sxs sand and 622 MScf N₂.
3. Perforated Berea 2507'-2511' with 32 shots. Frac with 466 bbls water, 420 sxs sand. Not commercial
4. Ran tubing with packer set at 2600.9'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
See Original					<p style="text-align: center;">RECEIVED APR 06 1990</p> <p style="text-align: center;">DIVISION OF OIL & GAS DEPARTMENT OF ENERGY</p> <p><i>Specimens frac. record only No. 1 to original OK Jamie ✓</i></p> <p style="text-align: right;"><i>Jamie 9/11/2014 for Pressing ✓</i></p>

(Attach separate sheets as necessary)

Quinoco Petroleum, Inc
Well Operator

By: *Bill W. [Signature]*

Date: *1/1/14*

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Office of Oil and Gas
SEP 19 2014

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including sand, encountered in the drilling of a well."

11/07/2014

1) Date: _____
2) Operator's Well Number
Fisher, Dolly #1 916
3) API Well No.: 47 - 053 - 00166

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>L. Ray Thornton, Jr.</u>	Name _____
Address <u>220 Autumn Dr.</u>	Address _____
<u>Dunbar, WV 25064-1302</u>	
(b) Name <u>Karen Thornton Turley</u>	(b) Coal Owner(s) with Declaration
Address <u>Same</u>	Name <u>No Declaration of Record</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Jamie Stevens</u>	(c) Coal Lessee with Declaration
Address <u>105 Kentuck Road</u>	Name _____
<u>Kenna, WV 25248</u>	Address _____
Telephone <u>304-206-7775</u>	

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

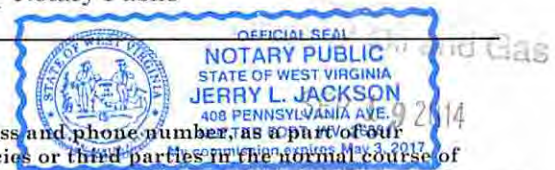
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator EnerVest Operating, L.L.C.
 By: Barry K. Lay *Barry K Lay*
 Its: Senior Vice President and General Manager, Appalachia West Assets
 Address 300 Capitol Street, Suite 200
Charleston, WV 25301
 Telephone 304-343-5505

Subscribed and sworn before me this 11th day of August, 2014
 My Commission Expires Nov 3, 2017
 _____ Notary Public



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

11/07/2014



EnerVest Operating, L.L.C.
Eastern Division

1064 Old Route 33, Weston, WV 26452-7722
 Phone (304) 517-1102 Fax (304) 517-1107

VIA CERTIFIED MAIL

August 18, 2014

L. Ray Thornton, Jr. & Karen Thornton Turley
 220 Autumn Drive
 Dunbar, WV 25064-1302

Re: Plugging Permit Dolly Fisher #1-998
 API# 47-053-00166
 Union District, Mason County, WV

Dear Surface Owner:

Pursuant to Chapter 22 of the West Virginia Code, enclosed please find copies of the following documents for the proposed plugging of the subject well:

- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Surface Owner Waiver (2 copies)

This application is being filed by EnerVest with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environment and Natural Resources. Any objections to the proposed process for the plugging of this well should be filed with the Office of Oil and Gas in the enclosed envelope.

Comments as to the location construction or the proposed plugging of this well under West Virginia Code, be filed by you with the said Administrator. The address of the filing comments and obtaining additional information is:

Permit Administrator
 West Virginia Division of Environmental Protection
 Office of Oil and Gas
 601 57th Street, SE
 Charleston, WV 25304

7009 1410 0000 9736 7086

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information, visit our website at www.usps.com.

OFFICIAL USE

Postage	\$ 9.11	
Certified Fee	3.30	
Return Receipt Fee (Endorsement Required)	2.70	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 15.11	

Sent To: L. Ray Thornton, Jr. & Karen Thornton Turley
 Street, Apt. No., or PO Box No.: 220 Autumn Drive
 City, State, ZIP: Dunbar, WV 25064-1302

PS Form 3800, August 2006

11/07/2014

47-053-00166-P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name EnerVest Operating, L.L.C. OP Code 30-9999

Watershed Little Horse Cave Run Quadrangle Cottageville (7.5) Ravenswood (15)

Elevation 850' County Mason District Union

Description of anticipated Pit Waste: No Pit To Be Built ✓

Will a synthetic liner be used in the pit? N/A

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Swabbing
- Workover
- Plugging
- Other (Explain No Pit To Be Built)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Benny K Lay

Company Official (Typed Name) Barry K. Lay

Company Official Title Senior Vice President and General Manager, Appalachia West Assets

Subscribed and sworn before me this 11th day of August, 2014

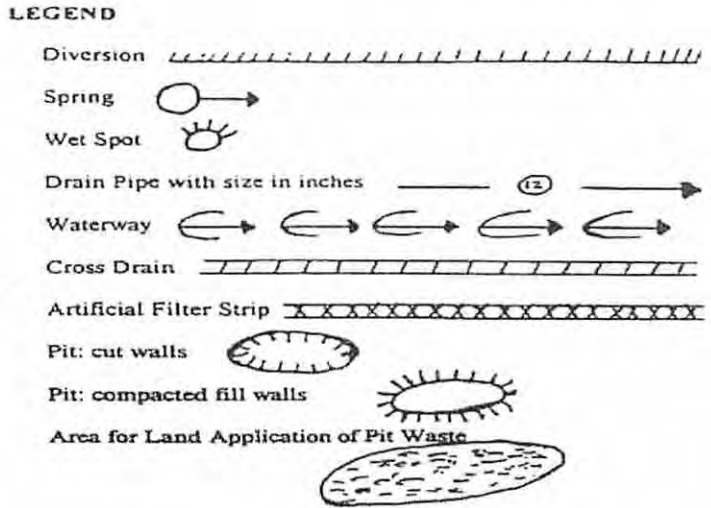
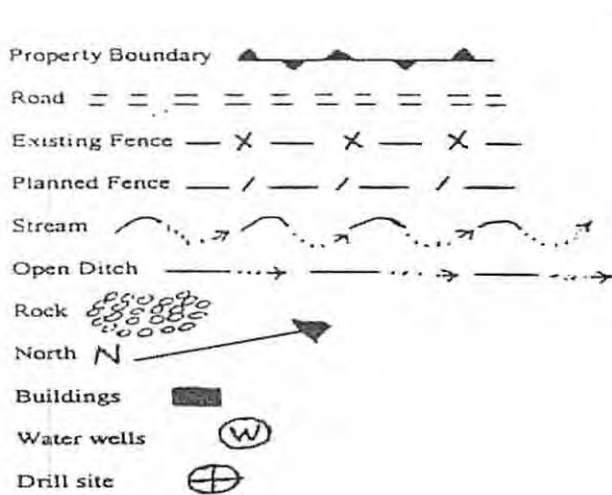
[Signature]

My commission expires May 3, 2017

Notary Public



11/07/2014



Proposed Revegetation Treatment: Acres Disturbed 2.00 *less* Prevegetation pH 6.5
 Lime according to pH test Tons/acre or to correct to pH 7.0
 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)
 Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I lbs/acre	Seed Type	Area II lbs/acre
Orchardgrass	25	Orchardgrass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

Attach:
 Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

See Attached GPS Well Location Form: GPS WW-7

Plan Approved by: *Janie Stevens*

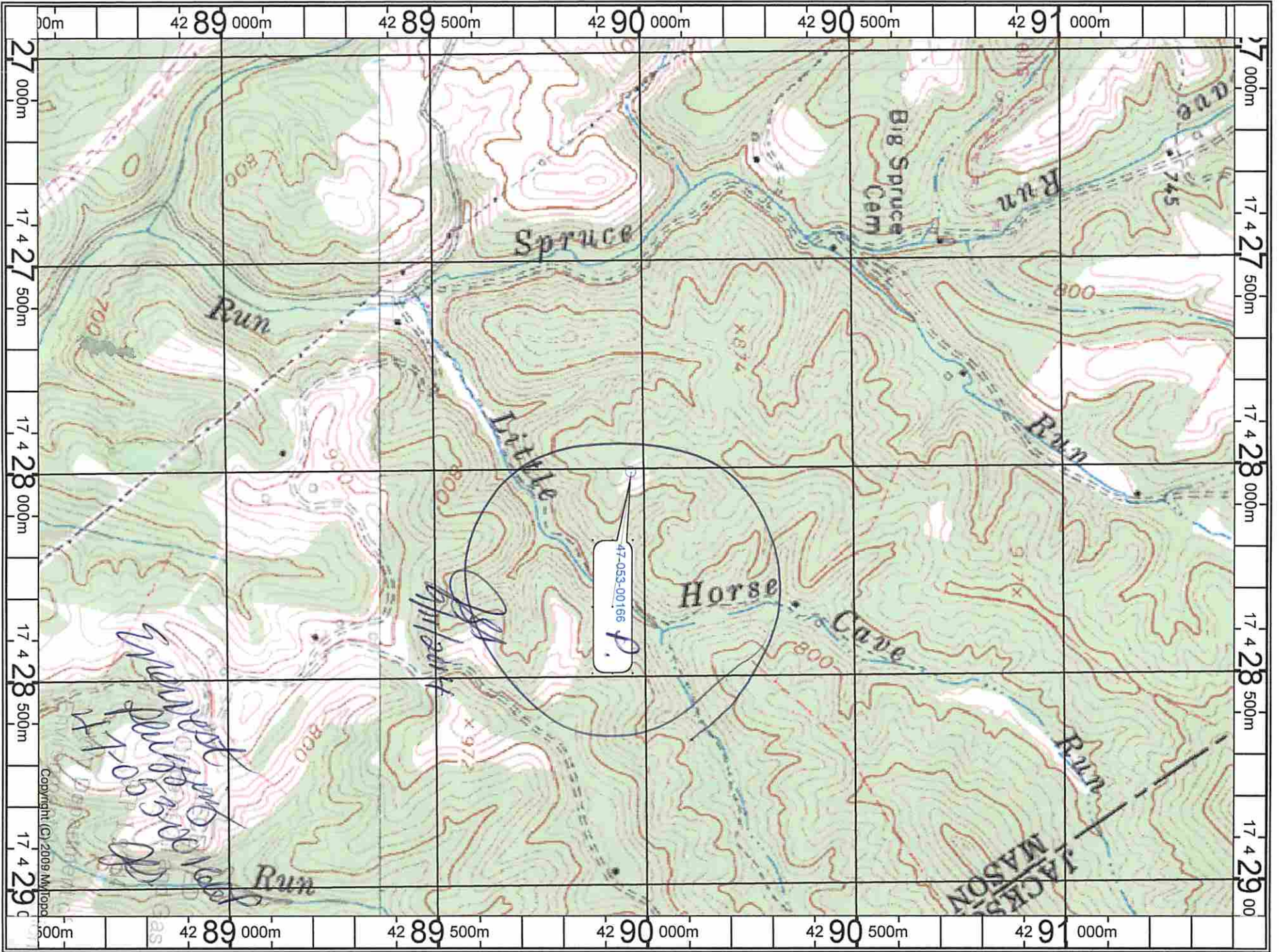
Comments: _____

Title *County Inspector*

Date: *9/12/2014*

Field Reviewed? () Yes () No

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 WV Department of
 Environmental Protection





West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 4705300166 P. WELL NO.: Dolly Fisher #1-916

FARM NAME: Dolley Fisher

RESPONSIBLE PARTY NAME: Barry K. Lay

COUNTY: Mason DISTRICT: Union 9

QUADRANGLE: Cottageville (7.5) Ravenswood (15)

SURFACE OWNER: L. Ray Thornton, Jr. et al

ROYALTY OWNER: D. Fisher

UTM GPS NORTHING: 4289970

UTM GPS EASTING: 428006.3 GPS ELEVATION: 850

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

Mapping Grade GPS ____: Post Processed Differential ____

Real-Time Differential ____

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Barry K Lay
Signature

Senior Vice President and General Manager, Appalachia West Assets

Title

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SEP 19 2014
8/11/14
Date
Department of Environmental Protection