



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

April 23, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702410, issued to TRIAD HUNTER, LLC, 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: O.D. STOCKLY #193
Farm Name: STOCKLEY, O. D.
API Well Number: 47-8702410
Permit Type: Plugging
Date Issued: 04/23/2014

Promoting a healthy environment.

04/25/2014

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.

87024TOP

WW-4B
Rev. 2/01

1) Date January 30, 2014
2) Operator's
Well No. O.D. Stockly # 193
3) API Well No. 47-087 - 02410

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 ___ / Liquid injection X / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1023' GPS Watershed Grannys Creek
District Geary 02 County Roane 87 Quadrangle Newton 512

6) Well Operator Triad Hunter, LLC 7) Designated Agent Kim Arnold
Address 125 Putnam Street Address P.O. Box 154
Marietta, Ohio 45750 Waverly, W.V. 26184

8) Oil and Gas Inspector to be notified Name Ed Gainer
Address P.O. Box 821
Spencer, W.V. 25276
9) Plugging Contractor Name N/A
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:

(SEE ATTACHED SHEET)

See changes!
4" to gell between all plugs

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

Work order approved by inspector 

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(2014)

Plugging Procedure Attachment (Wells with 8 5/8" Casing)

Well Name : O.D. Stockly # 193

Permit Number: 47-087-02410

District: Geary

County: Roane

MIIRU service rig and flowback tank; blow well down.

1. Pull tubing and rods OOH.
2. Check total depth with sandpump; clean out hole below bottom perforation.
3. Run 2 3/8" tubing below bottom perforation.
4. (Bottom Hole Plug) Mix/Pump 20 sacks Class A cement,(23.6 cu. ft.), ¼ lb.flocele/sk., no CaCl.
5. Displace cement through tubing with gel water.
6. Pull 2 3/8" tubing OOH.
7. RIH with casing cutter tool, check depth of 1st plug and find 4 ½" cement top (free pipe).
8. Cut-off 4 ½" casing just above the cement top, break circulation, and pull one jt. of casing OOH.
9. (Cut Plug) Mix/Pump 30 sacks Class A cement, (35.4 cu. ft.), ¼ lb. flocele/sk.,no CaCl.
10. Displace cement through casing with gel water.
11. Pull 4 ½" casing up to the subsea elevation depth.
12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
13. Displace cement through casing with gel water.
14. Pull 4 ½" casing to 100 feet below surface.
15. (Surface Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), ¼ lb. flocele/sk., no CaCl.
16. Circulate cement to surface.
17. Pull remaining joints of 4 ½" casing OOH. Top load annulus with Class A cement to surface.
18. Weld a three foot monument pipe on to the existing casing. Fill monument pipe with cement and attach identification plate to monument pipe.
19. RDMO service rig and supporting equipment.
20. Reclaim well site and lease road.

Elev 1028'



30' 100 ft plug bottom of surface seg 260-160

Plug Summary

(Plug Name)	(Thickness)	(Cement Type)	(Sacks)	(Cubic Feet)
1. Bottom Hole	250 ft.	Class A	20	23.6
2. Cut Plug	100 ft.	Class A	30	35.4
3. Elevation Plug	100 ft.	Class A	30	35.4
4. Surface Plug	100 ft.	Class A	30	35.4
5. Totals:			110 sacks	129.8 cu. ft.

PERFS

1896' - 1910' (28)

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8702410P

OG-10
Rev. - 9-71



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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD 46

Quadrangle Newton 7,5'

Permit No. Roa-2410

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

Company Pennzoil Company
 Address P. O. Box 1588, Parkersburg, WV 26101
 Farm O. D. Stockly Acres 4000
 Location (waters) Granny's Creek
 Well No. 193 Elev. 1028.65'
 District Geary County Roane
 The surface of tract is owned in fee by J. W. Gander
 Address Ovapa, WV 25150
 Mineral rights are owned by Mr. Wm. Hack, Agt.
 Address City Bank, N.A., 399 Park Ave New York, N.Y.
 Drilling Commenced 7-27-78
 Drilling Completed 8-7-78
 Initial open flow _____ cu. ft. _____ bbls.
 Final production _____ cu. ft. per day _____ bbls.
 Well open _____ hrs. before test _____ 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			
8 5/8	209	209	125 sks.
7			
5 1/2			
4 1/2	1964	1964	100 sks.
3			
2			
Liners Used			

Well treatment details: Fractured 11-8-78 w/148 BW, 1000# 20/40 sd., 250 Gal. 15% HCL
Water Injection Well

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
 Fresh water _____ Feet _____ Salt Water _____ Feet
 Producing Sand Squaw _____ Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	286		
Shale			286	290		
Sand			290	364		
Shale			364	378		
Sand			378	396		
Shale			396	420		
Sand			420	526		
Shale			526	530		
Sand			530	580		
Shale			580	630		
Sand			630	652		
Shale			652	672		
Sand			672	700		
Shaley Sand			700	834		
Shale			834	858		
Sand			858	876		
Shale			876	926		
Sand			926	946		
Shale			946	1000		
Sand			1000	1064		
Shale			1064	1068		
Sand			1068	1078		
Shale			1078	1096		
Sand			1096	1124		

* Indicates Electric Log tops in the remarks section.

(over)

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Formation	Color	Hard or Soft	Top Feet 42	Bottom Feet	Oil Gas or Water	Remarks
Shale			1124	1156		
Sand			1156	1172		
Shale			1172	1194		
Sand			1194	1206		
Shaley Sand			1206	1242		
Sand			1242	1260		
Shale			1260	1262		
Sand			1262	1322		
Shale			1322	1330		
Sand			1330	1406		
Shale			1406	1416		
Sand			1416	1438		
Shale			1438	1448		
Sand			1448	1474		
Shale			1474	1502		
Shaley Sand			1502	1614		
Sand			1614	1650		
Shale			1650	1718		
Little Lime			1718	1756		
Pencil Cave			1756	1778		
Big Lime			1778	1824		
Loyalhanna			1824	1894		
Big Injun			1894	1920		
Shale			1920	1950		
Squaw			1950	1970		
Shale			1970	1977		
Total Depth				1977		
Plug Back Depth				1952		

Date 2-14 19 79

APPROVED Pennzoil Company Owner

By [Signature]
 (Title) Eng. Dept.



Basin Surveys, Inc.

PERFORATION DEPTH CONTROL

FILING NO. Field Copy	COMPANY <u>Pennzoil Company</u>
	WELL <u>O. D. Stockley # 193</u>
	FIELD <u>GRANNY'S GREEK</u>
	COUNTY <u>ROANE</u> STATE <u>W. Va.</u>
LOCATION:	

PERMANENT DATUM <u>G.L.</u> ELEV. <u>1028.65</u>	ELEVATIONS:
LOG MEASURED FROM <u>K.B. 8'</u>	KB. <u>1036.65</u>
DRILLING MEASURED FROM <u>K.B.</u>	DF. _____
	GL <u>1028.65</u>

DATE	<u>10/31/78</u>
RUN NO.	<u>1</u>
TYPE LOG	<u>G/R P.D.C.</u>
DEPTH - DRILLER	<u>1977</u>
DEPTH - LOGGER	<u>1956'</u>
BOTTOM LOGGED INTERVAL	<u>1955'</u>
TOP LOGGED INTERVAL	<u>1700'</u>
TYPE FLUID IN HOLE	<u>Dry</u>
SALINITY PPM CL.	
DENSITY LB./GAL.	
LEVEL	
MAX. REC. TEMP. - DEG. F	
OPR. RIG TIME	<u>1 hr.</u>
RECORDED BY	<u>B. COWAN</u>
WITNESSED BY	<u>Mr. Heldman</u>

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO
<u>1</u>	<u>6 3/4</u>	<u>T.D.</u>	<u>GSC</u>	<u>8 3/4</u>		<u>220</u>	<u>656</u>
				<u>4 1/2"</u>		<u>SURFACE</u>	<u>1956</u>

THIS HEADING AND LOG CONFORM TO A PI STANDARD PRACTICE RP-37

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87024-10A

1800'

1900'

28-37" Holes

PICK-UP

1956'
T.D
1955'
F.R.

04/25/2014

NEW WELL REPORT - CONTINUED

870240P

INITIAL TORPEDO RECORD	CASING AND TUBING RECORD						
	SIZE	PUT IN WELL			PULLED OUT		
		TRANSFER NO.	FEET	INCH	TRANSFER NO.	FEET	INCH
Date of Shot	8 5/8"		209	00			
Name of Torpedo Co.							
No. of Quarts	4 1/2"		1964	90			
Length of Shell							
Diameter of Shell							
Length of Anchor							
Top of Shot							
Bottom of Shot							
Feet of Fluid in Hole When Shot							
Results:							

PACKER RECORD				
INITIAL PRODUCTION FIRST 24 HOURS	KIND	SIZE	DEPTH SET	DATE SET
Open Flow /10ths Water in.....Inch				
..... /10ths Merc. in.....Inch				
Volume.....Cu. Ft.				
Rock Pressure.....lbs.hrs.				
Oil.....bbls., First 24 hrs.				

ACIDIZATION OR FRACTURING RECORD	
DATE WELL ACIDIZED	
DATE WELL FRACTURED	November 8, 1978
NAME OF COMPANY	Halliburton
(List below materials used in Acidizing or Fracturing, i.e., Sand, Crude Oil, Gasoline, Water, Kerosene, Mothballs, Acid, etc., giving gallons, barrels and pounds.)	
148 Bbl. Water	
1000 Lbs. 20/40 Sand	
250 Gal. 15% HCL Acid	
5 Gal. WF-88 Detergent	
150 Lbs. WG-12 Gel	
2 Lbs. GBW-3 Breaking Agent	
14 Perf Balls	
6 Gal. 15-N N.E. Agent	
BREAKDOWN PRESSURE	1050 Lbs.
PUMPING PRESSURE	900 Lbs. Average
AVERAGE PUMPING RATE/MINUTE	20 BPM
PUMPING TIME	
RESULT AFTER TREATMENT	GAS _____ CU. FT.
	OIL _____ BBLs.
ROCK PRESSURE AFTER TREATMENT	_____ LBS.

CASING CEMENTED			
8 5/8" SIZE	209	FT.	7-28-78 DATE
BAGS USED	125		
4 1/2" SIZE	1964	FT.	8-07-78 DATE
BAGS USED	100		
SIZE		FT.	DATE
BAGS USED			
SIZE		FT.	DATE
BAGS USED			

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TOP DEPTH OF CEMENT SHOWN BY TEMPERATURE LOG
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REMARKS: This is a Water Injection Well.

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R. S. Kelly
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PENNZOIL COMPANY

NEW WELL REPORT

LEASE No. 60643-50 4000 ACRES

WORKING DISTRICT Central Area

Map # 83

O. D. Stockly FARM

WELL No. 193 N. 61 S. 61 E. 31 W. 31

Geary DISTRICT OR TOWNSHIP

Roane COUNTY Newton 7.5' QUAD.

LOCATION MADE _____ 19____

DRILLING COMMENCED July 27 1978

DRILLING EQUIPMENT USED SPUDDER ROTARY

DRILLING COMPLETED August 7 1978

DRILLING EQUIPMENT FURNISHED BY Clint Hurt & Associates, Inc.

PBD 1952
TOTAL DEPTH 1977 SAND Squaw

ELEVATION: FLOOR _____

DRILLING CONTRACTOR Clint Hurt & Associates, Inc.

ELEVATION: GROUND 1028.65'

WORK ORDER No. AFE # 70-28113

FORMATION RECORD

KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST	KIND	TOP	BOTTOM	STEEL LINE MEAS.	TEST
Sand & Shale		286			Big Lime	1778	1824		
Shale	286	290			Loyalhanna	1824	1894		
Sand	290	364			Big Injun	1894	1920		
Shale	364	378			Shale	1920	1950		
Sand	378	396			Squaw	1950	1970		
Shale	396	420			Shale	1970	1977		
Sand	420	526							
Shale	526	530			Total Depth		1977		
Sand	530	580							
Shale	580	630			Plug Back Depth		1952		
Sand	630	652							
Shale	652	672							
Sand	672	700							
Shaley Sand	700	834							
Shale	834	858							
Sand	858	876							
Shale	876	926							
Sand	926	946							
Shale	946	1000							
Sand	1000	1064							
Shale	1064	1068							
Sand	1068	1078							
Shale	1078	1096							
Sand	1096	1124							
Shale	1124	1156							
Sand	1156	1172							
Shale	1172	1194							
Sand	1194	1206							
Shaley Sand	1206	1242							
Sand	1242	1260							
Shale	1260	1262							
Sand	1262	1322							
Shale	1322	1330							
Sand	1330	1406							
Shale	1406	1416							
Sand	1416	1438							
Shale	1438	1448							
Sand	1448	1474							
Shale	1474	1502							
Shaley Sand	1502	1614							
Sand	1614	1650							
Shale	1650	1718							
Little Lime	1718	1756							
Pencil Cave	1756	1778							

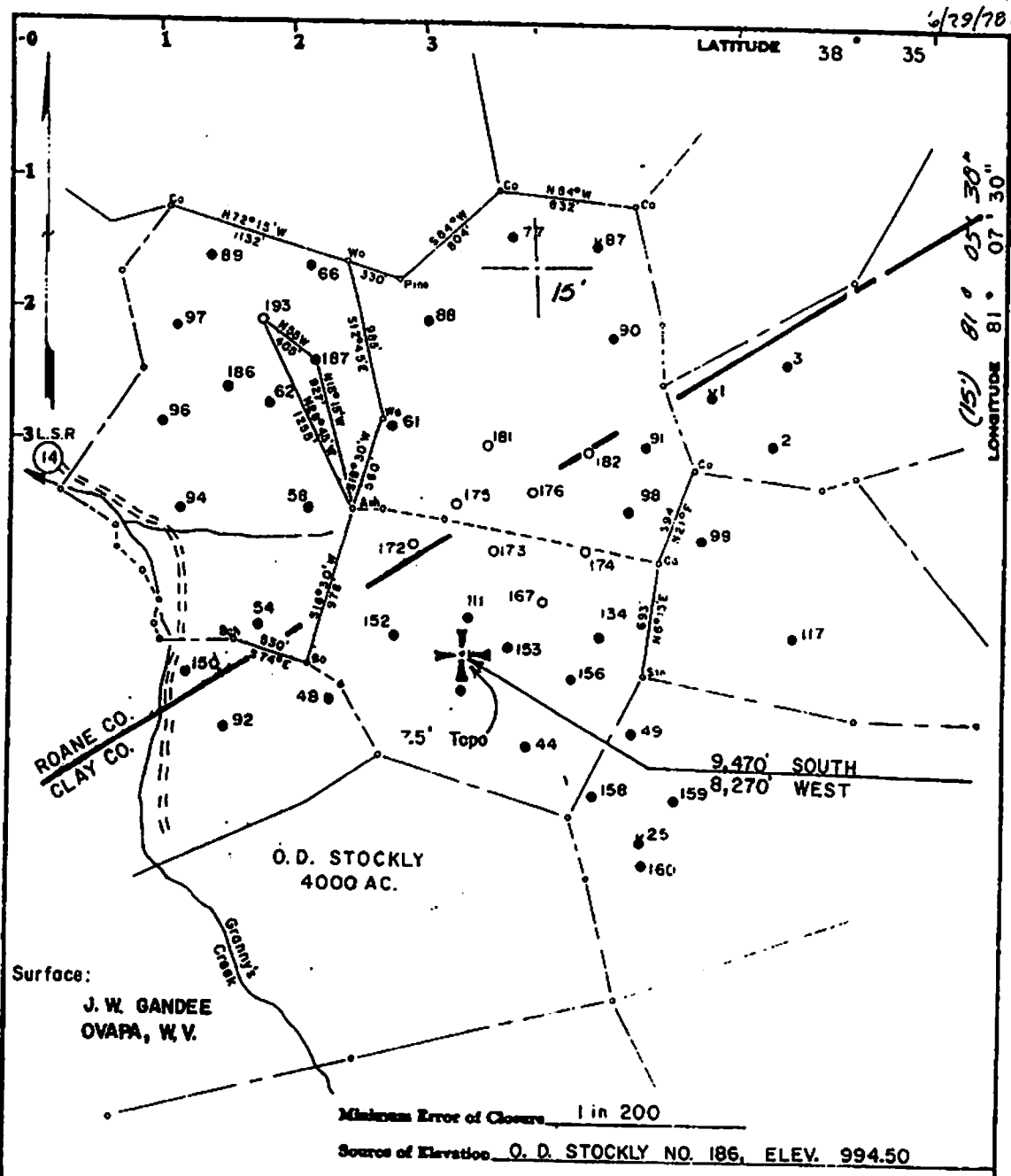
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4/29/78



Surfaces: J. W. GANDEE OVAPA, W. V.

Minimum Error of Closure 1 in 200

Sources of Elevation O. D. STOCKLY NO. 186, ELEV. 994.50

Fracture New Location Water Injection Drill Deeper Abandonment

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Signed: *Curtis A. Lucas*

Map No. 83 Squares: N 8 61 E W 31

Company PENNZOIL COMPANY

Address P. O. Box 1504, Parkersburg, W. Va. 26101

Farm O. D. STOCKLY

Fract Acres 4000 Lease No. 60643-50

Well Farm No. 193 Serial No. _____

Elevation (Spirit Level) 1028.65

Quadrangle NEWTON 7.5' OTTERIS

County ROANE District GEARY

Surveyor CURTIS A. LUCAS

Surveyor's Registration No. 275

File No. 640 Drawing No. _____

Date JUNE 21, 1978 Scale 1" = 800

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON

WELL LOCATION MAP
FILE NO. ROA-2410

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-087

64000-33-2700

1978' Survey

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WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 193

3) API Well No.: 47 - 087 - 02410

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>Charles Drake</u>		Name <u>N/A</u>
Address <u>2549 Grannys Creek Road</u>		Address _____
<u>Ovapa, W.V. 25164</u>		_____
(b) Name _____		(b) Coal Owner(s) with Declaration
Address _____		Name <u>N/A</u>
_____		Address _____
(c) Name _____		Name _____
Address _____		Address _____
_____		_____
6) Inspector <u>Ed Gainer</u>		(c) Coal Lessee with Declaration
Address <u>P.O. Box 821</u>		Name <u>N/A</u>
<u>Spencer, W.V. 25276</u>		Address _____
Telephone <u>(304) 389-7582</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: Triad Hunter, LLC

By: Rocky Roberts *Rocky Roberts*

Its: Senior V.P. Appalachian Operations

Address: 125 Putnam Street

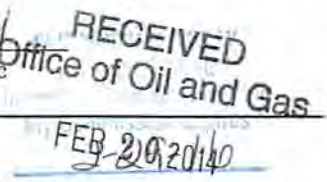
Marietta, Ohio 45750

Telephone: (740) 374-2940

Subscribed and sworn before me this 30th day of January, 2014

Elizabeth R. Jesby Notary Public

My Commission Expires 2-29-16



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 depprivacyoffier@wv.gov.

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Charles Drake
 2549 Grannys Creek Rd
 Ovapa, WV 25164

So
 St
 or
 Ci

Instructions

4

O.P. Stockly # 178	47-087-2970
" # 179	47-087-2103
" # 186	47-087-2092
" # 193	47-087-2410

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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 Triad Hunter, LLC OP Code _____

Watershed Grannys Creek Quadrangle Newton

Elevation 1023' GPS County Roane District Geary

Description of anticipated Pit Waste: * No Pit *; fluids will be separated at Ovapa Facility; oil stored and salt water re-injected.

Will a synthetic liner be used in the pit? * No Pit *

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 _____)

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 *Rocky Roberts*

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

Subscribed and sworn before me this 30 day of January, 2014

Elizabeth R. Seby



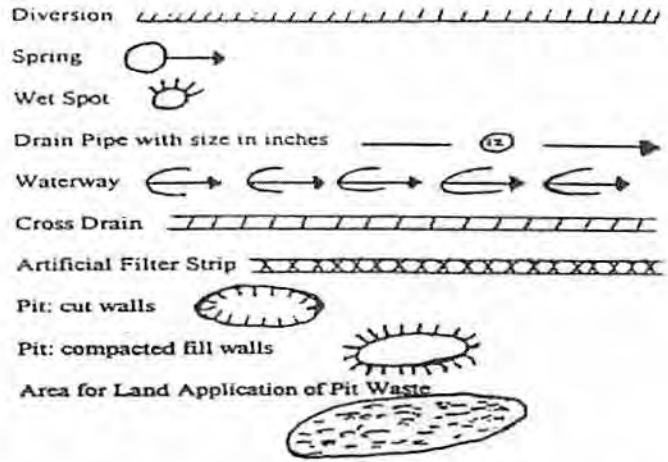
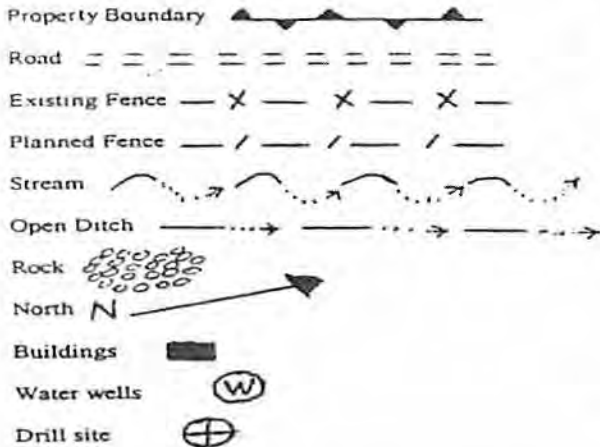
Notary Public



My commission expires 2-29-16

04/25/2014

LEGEND



Proposed Revegetation Treatment: Acres Disturbed One (1) Prevegetation pH 5.5
 Lime Two (2) Tons/acre or to correct to pH 6.5
 Fertilizer (10-20-20 or equivalent) 600 lbs/acre (500 lbs minimum)
 Mulch 90-100 bales/acre Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
Orchard Grass		30%			
Rye (Annual & BT)		35%			
Timothy (Climax)		25%			
Clover (Med. Red)		10%			

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Comments: _____

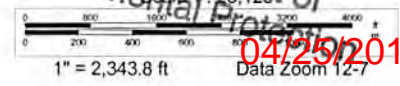
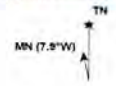
Title: Inspector Date: 2/6/14

Field Reviewed? () Yes () No

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 Data Zoom 12-7

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-087-02410 WELL NO.: 193

FARM NAME: O.D. Stockly

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane DISTRICT: Geary

QUADRANGLE: Newton

SURFACE OWNER: Charles Drake

ROYALTY OWNER: Black Stone Minerals LLP et al

UTM GPS NORTHING: 4267627

UTM GPS EASTING: 0486563 GPS ELEVATION: 1023'

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.

Ben Smethzer Geologist
Signature Title

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1/17/14
Date
WV Department of Environmental Protection

04/25/2014

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Chuck Taylor Toolbox

Geographic/UTM Coordinate Converter

You can convert between geographic coordinates and Universal Transverse Mercator (UTM) coordinates using this form.

Note: This is a JavaScript-powered form. If you have difficulties using this form, check your browser's settings to make sure you have enabled JavaScript.

Programmers: The JavaScript source code in this document may be copied and reused without restriction.

If you have a Java 1.1-compliant browser, and especially if you need to use an ellipsoid model other than WGS84, you may want to try the [Coordinate and Datum Transformations tool](#).

Geographic <i>(degrees decimal)</i>	To/From	UTM	
lon -81.154219317760	[>>]	x (easting)	0486563
lat 38.5569771298816	[<<]	y (northing)	4267627
		zone	17
		hemisphere	<input checked="" type="radio"/> N <input type="radio"/> S

O.D. Stockly #193

Geographic coordinates are entered and displayed in decimal degrees. Negative numbers indicate West longitudes and South latitudes. UTM coordinates are entered and displayed in meters. The ellipsoid model used for computations is WGS84.

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