



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: 47-8702970, 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 #178

Farm Name: STOCKLEY, O. D.

API Well Number: 47-8702970

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.

8702970A

WW-4B
Rev. 2/01

1) Date January 30, 2014
2) Operator's
Well No. O.D. Stockly # 178
3) API Well No. 47-087 - 02970

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 915' 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!

20% gel 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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Date FEB 20 2014
4/6/14
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04/25/2014

8702970F

(2014)

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

Well Name : O.D. Stockly # 178

Permit Number: 47-087-02970

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.), 1/4 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 1/2" cement top (free pipe).
8. Cut-off 4 1/2" 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.), 1/4 lb. flocele/sk.,no CaCl.
10. Displace cement through casing with gel water.
11. Pull 4 1/2" casing up to the subsea elevation depth.
12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), 1/4 lb. flocele/sk., no CaCl.
13. Displace cement through casing with gel water.
14. Pull 4 1/2" casing to 100 feet below surface.
15. (Surface Plug) Mix/Pump 30 sacks of Class A cement,(35.4 cu. ft.), 1/4 lb. flocele/sk., no CaCl.
16. Circulate cement to surface.
17. Pull remaining joints of 4 1/2" 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.

SET ABOVE 1780'

→

set 100 ft plug at bottom of surface pipe - 280 - 180

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.

140

PERFS 1786" - 1798

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March 25, 1980

Stockly 178

47-087-2970

Well No. 918.90' Watercourse Granny's Creek
 District Geary County Roane Township Newton 7.5'
 Operator Pennzoil Company District Engineer Mr. James A. Crews
 Address P. O. Box 1588 P. O. Box 1588
Parkersburg, WV 26101 Parkersburg, WV 26101

WELL TYPE: Drill / Convert / Drill deeper / Re-drill / Fracture or stimulate
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify) _____

WELL LOGGED ON May 3, 1979 BY Richard Morris OIL & GAS SUPERVISOR FOR THIS WORK
 ADDRESS Grantsville, WV
 DATE MAY 27, 1980

DEPT. OF MINES
 LOCAL PERMIT FORMATION: _____
 DEPTH OF COMPLETED WELL: 1873 feet
 WATER SAMPLE DEPTH: Fresh, _____ feet
 WELL DEPTH: _____ feet
 WORK COMMENCED June 15, 1979 AND COMPLETED July 26, 1979

CEMENT SCHEDULING PROGRAM

WELL TYPE	SPECIFICATIONS				FOOTAGE		CEMENT FILLED OR SACKS (Cubic Feet)	PACKERS	
	Size	Trade	Weight per ft	New	Used	For drilling			
Water	8-5/8					239	239	100 sks	Winds
Medium	4-1/2					1874	1874	50 sks	Perforations:
									Top Bottom

OPERATING FORMATION Water Injection Well Pay zone depth _____ ft
 Initial open flow, _____ Mcf/d Oil Initial open flow, _____ Bbl/d
 Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours
 Shut-in pressure, _____ psig (surface measurement) after _____ hours shut in
 (If applicable due to multiple completions)
 Producing formation _____ Pay zone depth _____ ft
 Initial open flow, _____ Mcf/d Oil Initial open flow, _____ Bbl/d
 Final open flow, _____ Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, _____ hours

04/25/2014

Manufactured: 7-26-74 w/ 138 BW, 250 gal. 15% HCL, 1000# 20/40 ad.

LOG

DESCRIPTION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fluid and water, gas, oil and
Sand & Shale			0	960	
Shaley Sand			960	988	
Sand			988	1007	
Shaley Sand			1007	1020	
Sand & Shale			1020	1156	
Shaley Sand			1156	1194	
Sand & Shale			1194	1604	
Little Lime			1604	1632	
Blue Monday			1632	1644	
Concil Cave			1644	1668	
Little Lime			1668	1710	
Walhanna			1710	1774	
Coner			1774	1782	
Injun			1782	1808	
ile			1808	1840	
se			1840	1856	
ile			1856	1873	
Total Depth				1873	

(Attach separate sheets to complete as necessary)

Pennzoil Company
Well Operator

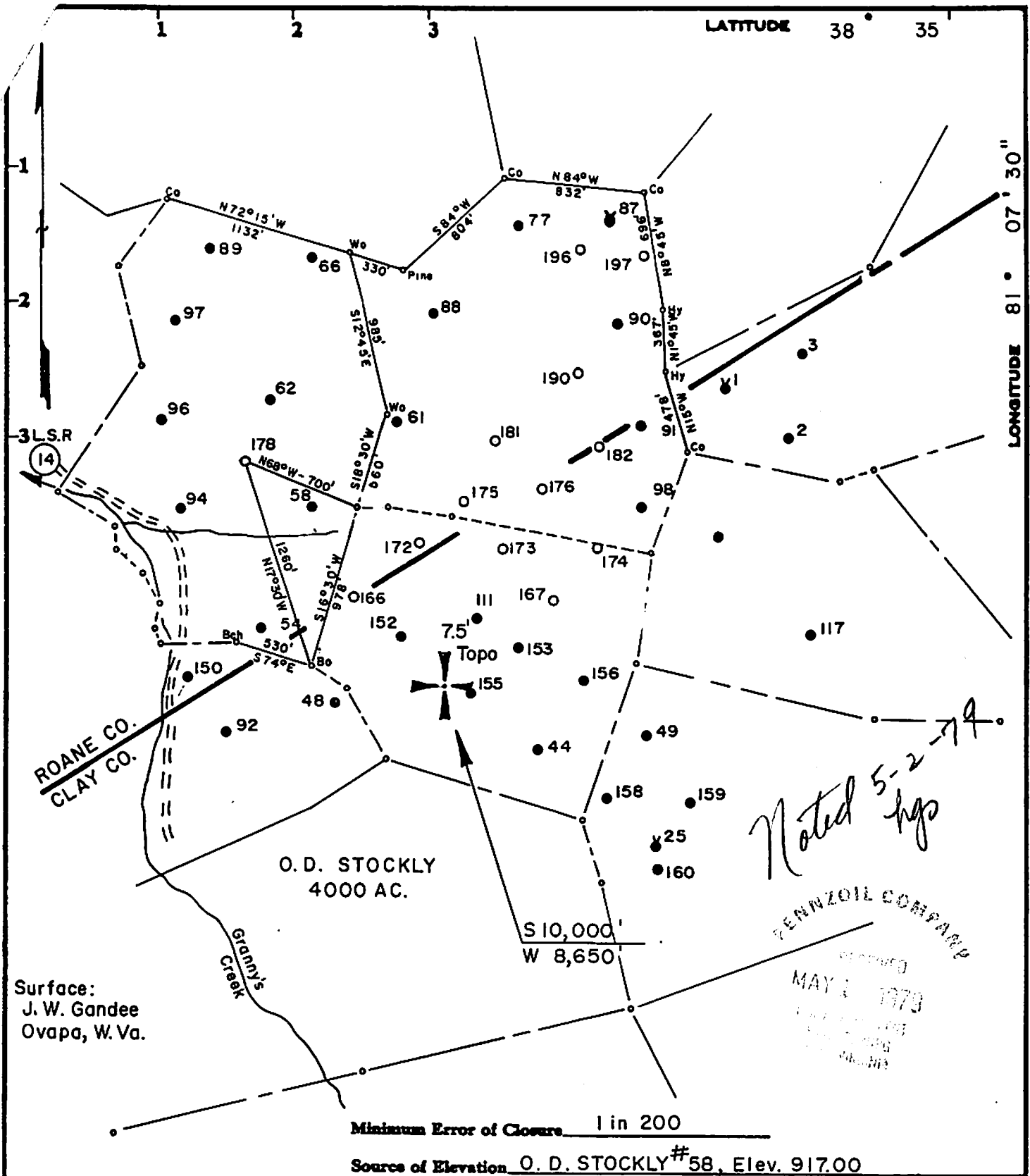
By Curtis A. Lumar

XXX Civil Engineering Dept. RECEIVED

Office of Oil and Gas



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Noted 5-2-79

PENNZOIL COMPANY
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 MAY 2 1979
 OIL AND GAS DIVISION
 CHARLESTON

Surface:
 J. W. Gandee
 Ovapa, W. Va.

Minimum Error of Closure 1 in 200
 Source of Elevation O. D. STOCKLY #58, Elev. 917.00

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 S 61 E W 31

Company PENNZOIL COMPANY
 Address P. O. Box 1588, Parkersburg, W. Va. 26101
 Farm O. D. STOCKLY
 Tract Acres 4000 Lease No. 60643-50
 Well (Farm) No. 178 Serial No.
 Elevation (Spirit Level) 918.90
 Quadrangle NEWTON 7.5'
 County ROANE District GEARY
 Surveyor CURTIS A. LUCAS
 Surveyor's Registration No. 275
 File No. 640 Drawing No.
 Date 5-1-79 Scale 1" = 800

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

WELL LOCATION MAP

FILE NO. 04/25/2014

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

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

BRUNING 44-131 27198

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N McCullough

BOND CEMENT AND/OR SONIC SEISMOGRAM LOG

GAMMA RAY

FILING NO.
HBC-GR-55-98574

PENNZOIL CO.
 PETROLEUM ENGR. DEPT.
FILE COPY

COMPANY PENNZOIL COMPANY
 WELL O.D. STOCKLY #178
 FIELD GEARY DISTRICT
 COUNTY ROANE STATE WEST VIRGINIA

LOCATION GRANNY'S CREEK
NEWTON 7.5' QUAD. OTHER SERVICES

	SEC	TWP	RGE	ELEVATIONS
PERMANENT DATUM	GL			918.9'
LOG MEASURED FROM	CORRECTED TO OPEN HOLE LOG			KB 926.9'
DRILLING MEASURED FROM	KB			DF 925.9'
DATE	7-19-79			GL 918.9'
RUN NO.	ONE			
TYPE LOG	BOND CEMENT-GAMMA RAY-SONIC SEISMOGRAM			
DEPTH - DRILLER	1878'			
DEPTH - LOGGER	1848'			
BOTTOM LOGGED INTERVAL	1844'			
TOP LOGGED INTERVAL	1400'			
TYPE FLUID IN HOLE	WATER			
SALINITY PPM CL.				
DENSITY LB GAL.				
LEVEL	FULL			
MAX. REC. TEMP. DEG. F.				
OPR. RIG TIME				
RECORDED BY	MAYFIELD			
WITNESSED BY	MR. HELDMAN			

RUN NO.	BORE HOLE RECORD				CASING RECORD			
	BIT	FROM	TO	SIZE	WGT.	FROM	TO	
1				8-5/8"		0	239'	
	7-7/8"	239'	TD	4-1/2"		0	TD	

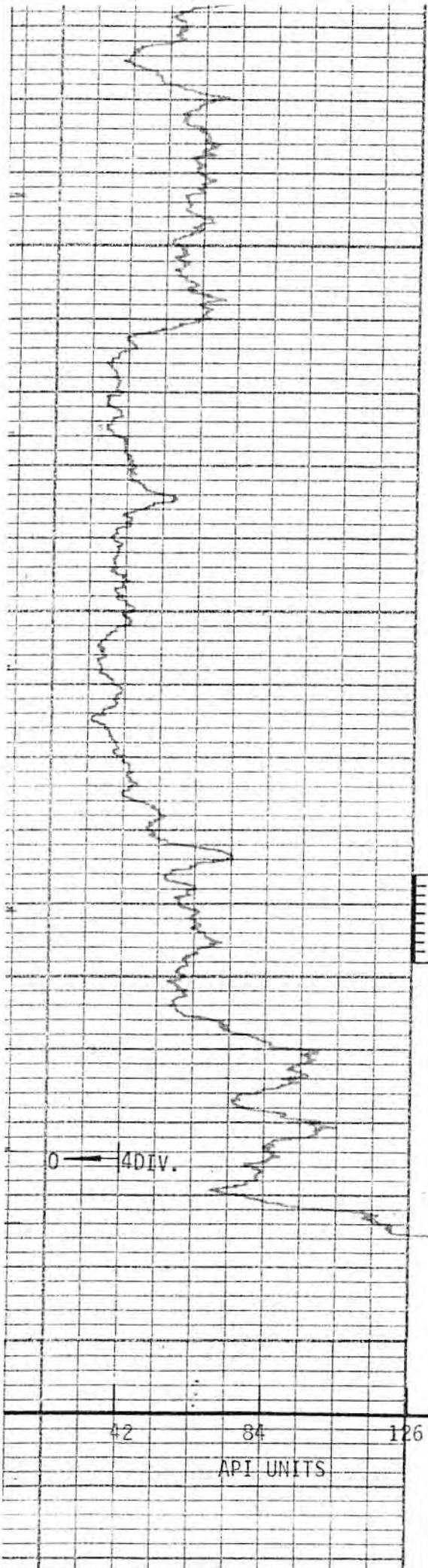
THIS HEADING AND LOG CONFORMS TO API RECOMMENDED STANDARD FOR FILE 11.1

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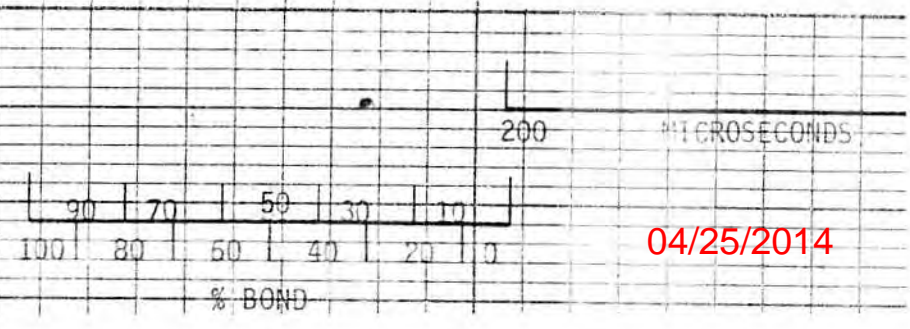
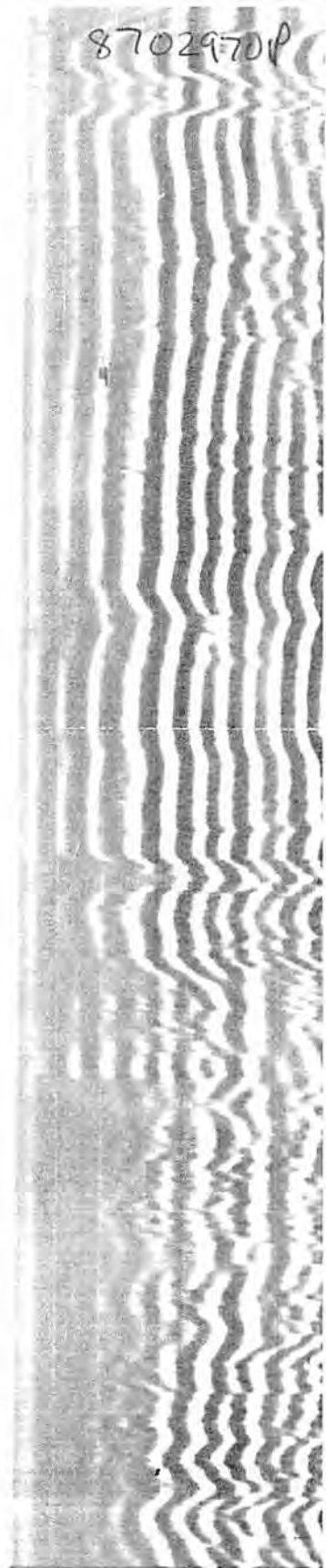


1700

1750

1800

3-1/8" OMEGA JET
12 HOLES



04/25/2014

WW-4A
Revised 6-07

1) Date: January 30, 2014
2) Operator's Well Number
O.D. Stockly # 178

3) API Well No.: 47 - 087 - 02970

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. Jubay Notary Public

My Commission Expires 2-29-16

ELIZABETH R. JUBAY
Notary Public
in and for the State of Ohio

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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 or
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Charles Drake
 2549 Grannys Creek Rd
 Ovapa, WV 25164

Instructions



4

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

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WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 087 - 02970
Operator's Well No. O.D. Stockly # 178

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 915' 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

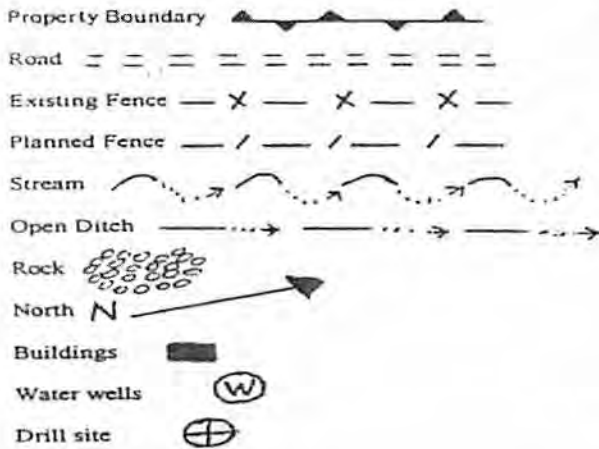
Company Official Title Senior V.P. Appalachian Operations

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

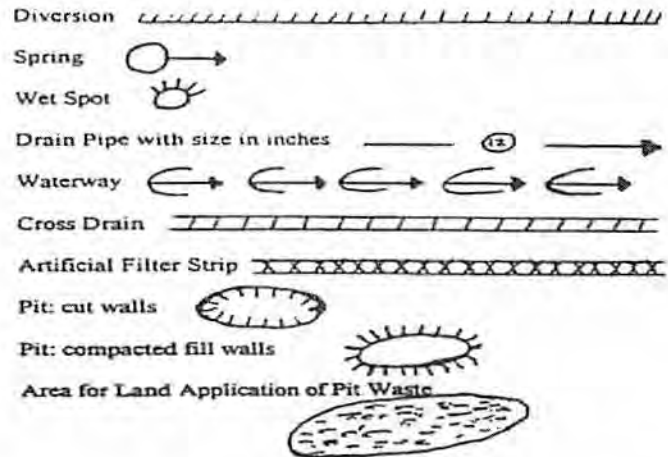
Elizabeth J. Seibg Notary Public

My commission expires 2-29-16





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

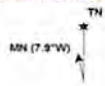
Field Reviewed? () Yes () No



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8702970 A

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-087-02970 WELL NO.: 178

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: 4267352

UTM GPS EASTING: 0486517 GPS ELEVATION: 915'

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 Smethers
Signature

Geologist
Title

1/17/14
Date

8702970A



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 (degrees decimal)	To/From	UTM	
lon <u>-81.154741954865</u> [>>]	x (easting)	<u>0486517</u>	O.D. Stockly # 178
lat <u>38.554498130106</u> [<<]	y (northing)	<u>4267352</u>	
	zone	<u>17</u>	
	hemisphere	<input checked="" type="radio"/> N <input type="radio"/> S	

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.

Chuck Taylor -- ([Copyright](#)) -- ([Contact](#))

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