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

June 11, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8702969, 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 penalities 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. STOCKLEY 170
Farm Name: STOCKLEY, O. D.
API Well Number: 47-8702969
Permit Type: Plugging
Date Issued: 06/11/2015

Promoting a healthy environment.

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.

WW-4A
Revised 6-07

1) Date: 1/20/2015
2) Operator's Well Number
O.D. Stockley # 170

4708702969

3) API Well No.: 47 - 087 - 2969 P

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name: Charles Drake
Address: 2549 Granny's Creek Road
Ovapa, WV 25164
(b) Name:
Address:
(c) Name:
Address:

5) (a) Coal Operator
Name: N/A
Address:
(b) Coal Owner(s) with Declaration
Name: N/A
Address:
Name:
Address:
(c) Coal Lessee with Declaration
Name: N/A
Address:

6) Inspector: Ed Gainer
Address: P.O. Box 821
Spencer, WV 25276
Telephone: (304) 389-7582

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
Its: Senior V.P. Appalachian Operations
Address: 125 Putnam Street
Marietta, Ohio 45750
Telephone: (740) 374-2940

Subscribed and sworn before me this 22nd day of January, 2015
Elizabeth R. Tebay Notary Public
My Commission Expires 2-29-16

ELIZABETH R. TEBAY
NOTARY PUBLIC
In and For The State of Ohio
My Commission Expires
2-29-16

Received
Office of Oil & Gas
MAR 16 2015

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.

4708702969

87-2969P

7014 0150 0000 9042 1284

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

BS

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

OFFICIAL USE

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

MAR 11 2005 USPS

Postmark Here

Sent To Charles Drake
Street, Apt. No.; or PO Box No. 2549 Granny's Creek Rd
City, State, ZIP+4 Clapa WV 25164

PS Form 3800, August 2006 See Reverse for Instructions

Charles Drake

O.D. Stockley

#170, #171

(2 wells)

915 Greenbag Road
Morgantown, WV 26508
Toll Free 888.292.0001
Fax 304.292.0283

MPB
Expert Solutions.
www.morgantownprinting.com

803 Quarrier St. Suite 310
Charleston, WV 25301
Toll Free 888.292.0001
Fax 304.345.0644

47087029 69

WW-4B
Rev. 2/01

1) Date January 20, 2015
2) Operator's
Well No. O.D. Stockley # 170
3) API Well No. 47- 087 - 2969 P

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____

5) Location: Elevation 888' GL Watershed Granny's Creek
District Geary County Roane Quadrangle Newton

6) Well Operator Triad Hunter, LLC
Address 125 Putnam Street
Marietta, Ohio 45750

7) Designated Agent Kim Arnold
Address P.O. Box 154
Waverly, WV 26184

8) Oil and Gas Inspector to be notified
Name Ed Gainer
Address P.O. Box 821
Spencer, WV 25276

9) Plugging Contractor
Name N/A
Address

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

150' - 200' Bottom hole plug in 4 1/2" casing. across perfs
100' - Cut plug (4.5" csg.) Bond Log cement top at 1318'.
100' - Elevation plug @ 925'.
100' - Surface casing plug @ 225'.
150' - Surface plug in 8 5/8" casing.

Note! 1. All cement plugs - Class A cement.
2. Gel spacers between all cement plugs.
3. No coal seams reported.

Received
Office of Oil & Gas
MAR 16 2015

ERECT MONUMENT W/API # AFFIXED GCS

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

Work order approved by inspector _____ Date 3/19/15

4708702969

FORM IV-35
(Obverse)
(08-78)

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

WELL OPERATOR'S REPORT OF

Stockly 170

API - 087-2969

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

LOCATION: Elevation: 888.15' Watershed: Granny's Creek
District: Geary County: Roane Quadrangle: Newton 7.5'

WELL OPERATOR Pennzoil Company
Address P. O. Box 1588
Parkersburg, WV 26101

DESIGNATED AGENT James A. Crews
Address P. O. Box 1588
Parkersburg, WV 26101

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) ___

PERMIT ISSUED ON 5-3-, 19 79

(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ___, 19___)

OIL & GAS INSPECTOR FOR THIS WORK:
Name Richard Morris
Address Grantsville, WV

GEOLOGICAL TARGET FORMATION: Injun Depth 1823 feet

Depth of completed well, 1840 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, ___ feet; salt, ___ feet.

Coal seam depths: ___ Is coal being mined in the area? No

Work was commenced 6-9, 19 79, and completed 6-14, 19 79

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS Size	Grade	Weight per ft	New	Used	FOOTAGE INTERVALS For drilling	Left in well	CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
Conductor									
Fresh water	8-5/8					202'	202'	125 sks.	Kinds
Coal									
Intermediate									Sizes
Production	4-1/2					1829'	1829'	75 sks.	
Tubing									Depths set
Liners									
									Perforations:
									Top Bottom

RECEIVED
NOV 21 1979
OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Squaw Pay zone depth ___ feet

Gas: Initial open flow, 9 Mcf/d Oil: Initial open flow, 3 Bbl/d
Final open flow, 9 Mcf/d Final open flow, 3 Bbl/d
Time of open flow between initial and final tests, ___ hours
Static rock pressure, ___ psig (surface measurement) after ___ 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 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

Received
Office of Oil & Gas
MAR 16 2015

47087029 69

WELL NO.

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh water, salt water, coal, oil and gas
Shale					
Sand			1312	1380	
Shale			1380	1442	
Sand			1442	1448	
Shale			1448	1508	
Sand			1508	1540	
Shale			1540	1546	
Little Lime			1546	1588	
Pencil Cave			1588	1620	
Big Lime			1620	1642	
Loyalhanna			1642	1684	
Keener			1684	1740	
Big Injun			1740	1758	
Shale			1748	1786	
Squaw			1786	1804	
Shale			1804	1830	
			1830	1840	
Total Depth				1840	
Plug Back Depth				1817	

(Attach separate sheets to complete as necessary)

PENNZOIL COMPANY
Well Operator

By Curtis G. Lucas

Its Supervisor of Surveying and Mapping

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 coal, encountered in the drilling of a well."

Received
Office of Oil & Gas
MAR 16 2015

FORM IV-35
(Reverse)

[08-78]

4708702969

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, [illegible]

Fractured: 7-26-79
w/142BW, 1000# 20/40 sd.,250 Gal. 15% HCL Acid

WELL LOG

FORMATION	Color	Hard or Soft	TOP Feet	Bottom Feet	Remarks Including indication of all fres and salt water, coal, oil and ga
Sand				34	
Shale			34	72	
Sand			72	216	
Shale			216	236	
Sand			236	256	
Shale			256	294	
Sand			294	310	
Shale			310	318	
Sand			318	326	
Shale			326	342	
Sand			342	354	
Shale			354	368	
Sand			368	432	
Shale			432	458	
Sand			458	470	
Shale			470	492	
Sand			492	514	
Shale			514	528	
Sand			528	582	
Shale			582	590	
Sand			590	642	
Shale			642	662	
Sand			662	726	
Shale			726	806	
Sand			806	828	
Shale			828	874	
Sand			874	910	
Shale			910	964	
Sand			964	984	
Shale			984	1018	
Sand			1018	1032	
Shale			1032	1036	
Sand			1036	1062	
Shale			1062	1068	
Sand			1068	1084	
Shale			1084	1138	
Sand			1138	1312	

(Attach separate sheets to complete as necessary.)

PENNZOIL COMPANY
Well Operator

By [signature]

Its Supervisor of Surveying and Mapping

NOTE: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologic record of all formations, including coal, encountered in the drilling of a well."

Received
Office of Oil & Gas
MAY 16 2005

4708702969

WW-9
Rev. 5/08

Page 1 of 2
API Number 47 - 087 - 2969 P
Operator's Well No. O.D. Stockley # 170

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 4944494833

Watershed Granny's Creek Quadrangle Newton

Elevation 888' GL County Roane District Geary

Description of anticipated Pit Waste: oil, saltwater, and freshwater

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 Dispposal (Supply form WW-9 for disposal location)
X Other (Explain Fluids collected in surface tank and hauled to Ovapa Injection Facility.

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 _____

Received
Office of Oil & Gas
MAR 16 2015

Company Official (Typed Name) Rocky Roberts

Company Official Title Senior V.P. Appalachian Operations

Subscribed and sworn before me this 22nd day of January, 2015

Elizabeth R Tebay Notory Public

ELIZABETH R. TEBAY
NOTARY PUBLIC
In and For The State of Ohio
My Commission Expires
2-29-16

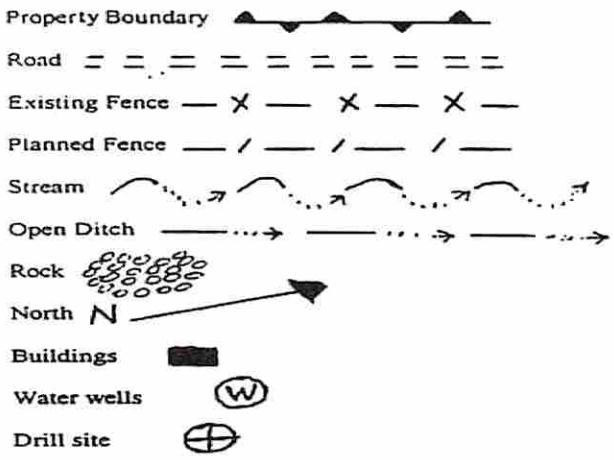
My commission expires 2-29-16

Form WW-9

Operator's Well No. O.D. Stockley # 170

4708702969

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) 500 lbs/acre (500 lbs minimum)

Mulch (50 bales) 2.5 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	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.

Received
Office of Oil & Gas
MAR 16 2015

Plan Approved by:

Comments:

Title: Inspector Date: 3/9/15

Field Reviewed? (____) Yes (X) No

DELORME

4708702969 87-2969P

XMap® 7

Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com

TN

MN (8.0°W)

MAR 16 2010

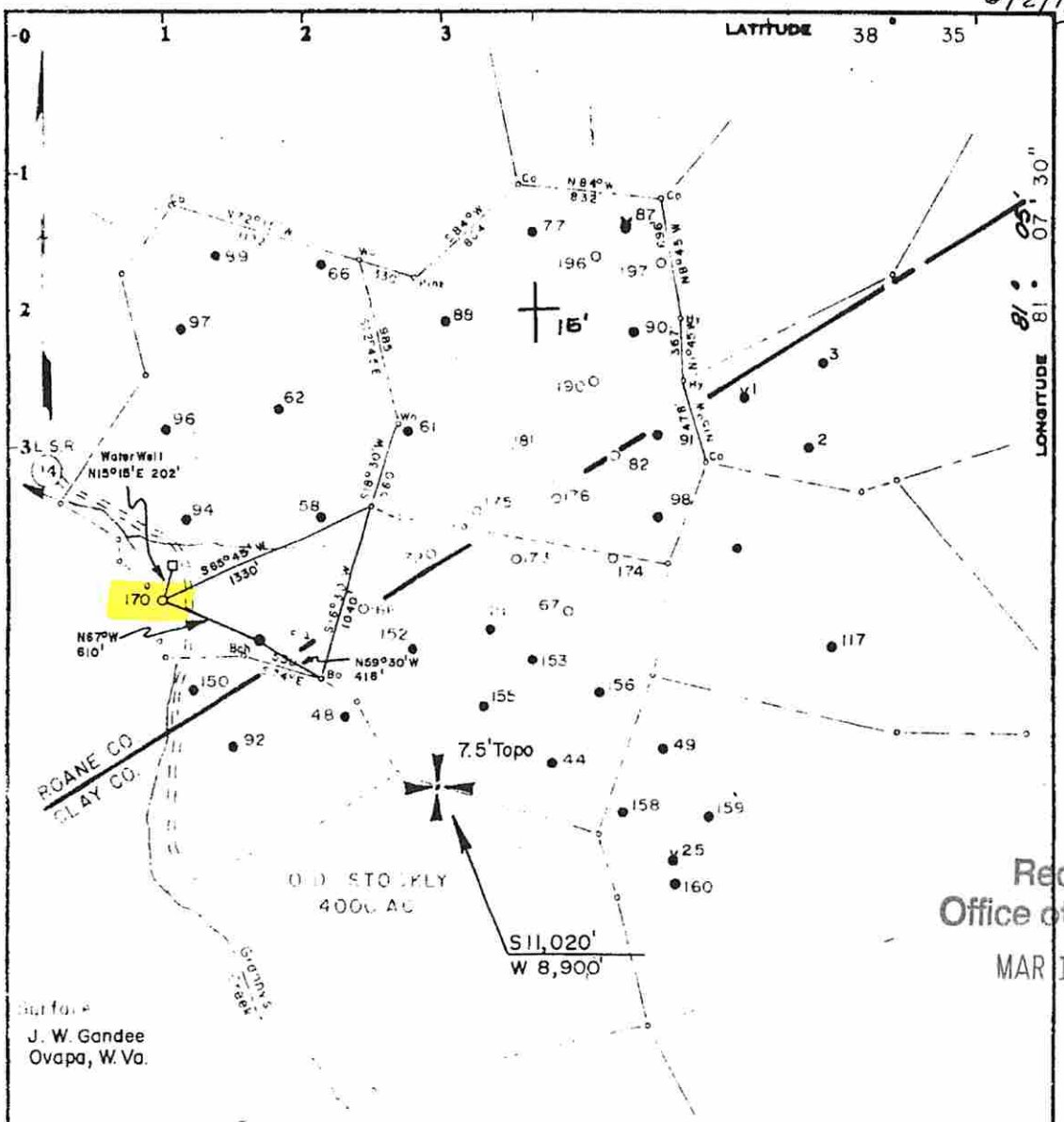
Scale 1 : 17,600

1" = 1,466.7 ft

Data Zoom 13-5

4708702969

5/2/79



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

Received
Office of Oil & Gas
MAR 16 2015

Minimum Error of Closure 1 in 200

Source of Elevation O. D. STOCKLY #94, Elev. 889.00

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

PENNZOIL COMPANY
P.O. Box 1588 Parkersburg, W. Va. 26101
O. D. STOCKLY
4000 Lease No. 60643-50
170
888.15
NEWTON 7.5, OTTER 15'
ROANE
CURTIS A. LUCAS
275
640
5-1-79 800

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

WELL LOCATION MAP

FILE NO. 47-087-2969

+ 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.

1572'

WW-7
8-30-06

4708702969

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

API: 47-087-02969P **WELL NO.:** 170

FARM NAME: O.D. Stockley

RESPONSIBLE PARTY NAME: Triad Hunter, LLC

COUNTY: Roane **DISTRICT:** Geary

QUADRANGLE: Newton

SURFACE OWNER: Charles Drake

ROYALTY OWNER: Black Stone Minerals LLP

UTM GPS NORTHING: 4267108

UTM GPS EASTING: 486398 **GPS ELEVATION:** 939

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 X: Post Processed Differential X

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.

RECEIVED
Office of Oil and Gas
MAR 26 2015
WV Department of
Environmental Protection

Signature Title Date

Geologist 3/17/15

I

Operator: TRIAD HUNTER, LLC

API: 8702969

WELL No: O. D. STOCKLEY 170

Reviewed by: GCS Date: 6/9/15

15 Day End of Comment: 03/24/15

CHECKLIST FOR FILING A PERMIT

Plugging

- [x] WW-4B
- [x] Inspector signature on WW-4B
- [x] Completion / Well Records of Previous Work
- [x] WW-4A (Notarized)
- [x] Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- [ ] Surface Owner Waiver
- [ ] Coal Owner / Lessee /Operator Waiver
- [x] WW-9 (Page 1) (Notarized)
- [x] Inspector Signature on WW-9 (Optional)
- [x] Topographic Map of location of well
- [x] WW-7

OR

- [ ] Mylar Plat (Surface owner on plat matches WW-4A)
- [x] Bond
- [x] Company is Registered with the SOS
- [x] Worker's Compensation / Unemployment Insurance account is OK
- [ ] $100.00 check ($0.00 if no pit)