

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

May 08, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1501596, 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: J.B. CASTO #111

Farm Name: TRIAD HUNTER, LLC

API Well Number: 47-1501596

Permit Type: Plugging Date Issued: 05/08/2014

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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-4B Rev. 2/01

| 1) Date January 30 | , | 2014 |
|--------------------|-----------|---------|
| 2) Operator's | | |
| Well No. J.B. Cas | sto # 111 | |
| 3) API Well No. | 47-015 | - 01596 |

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

|) | Location: Ele | evation_1203'GPS | Watershed Grannys Creek | |
|---|--------------------------------------------------------------------------------|------------------------------|--------------------------------------------|--|
| | Dis | Strict Henry 0 | County Clay 15 Quadrangle Newton 512 | |
|) | Well Operator Address Triad Hunter, LLC 125 Putnam Street Marietta, Ohio 45750 | | 7) Designated Agent Kim Arnold | |
| | | | Address P.O. Box 154 Waverly, W.V. 26184 | |
| | Address P.O Spe | .Box 821 ncer, W.V. 25276 | Address | |
| | | | | |
| | | The work order for the ma | onner of plugging this well is as follows: | |

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

Office of On

Work order approved by inspector

Office of Oil and Gas

Environmental protection

(2014)

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

Permit Number: 47-015-01596 Well Name: J.B. Casto # 111

County: Clay District: Henry

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.

BHP (2114' - 1864') 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 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 1/2" casing up to the subsea elevation depth.

(1253-1153) 12. (Elevation Plug) Mix/Pump 30 sacks of Class A cement, (35.4 cu. ft.), 1/4 lb. flocele/sk., no CaC

13. Displace cement through casing with gel water. surface pipe - 415 to 215

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.), ¼ 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.

FIGU. 1203

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 RECEIVED |
| 3. Elevation Plug | 100 ft. | Class A | Office of Oil and Gas |
| Elevation Plug Surface Plug | 100 ft. | Class A | 30 FEB 524 2014 |
| 5. Totals: | | | 110 sacks 129.8 cu. ft. |
| | | | Environmental Protection |

FATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION 2-4-80 , 19 FORM IV-35 Operatoria (Obverse) Well No. J. B. Casto 111 WELL OPERATOR'S REPORT [08-78] API We: No. 47 -015-1596-W DRILLING, FRACTURING AND/OR STIMULATING, DR FHYSICAL CHANGE WELL TYPE: 011 / Gas / Liquid Injection X / Waste Disposal (If "Gas", Production___/ Underground storage___/ Deep___/ Shallow___/) LOCATION: Elevation: 1169.69' Watershed: Grannys Creek District: Henry County: Clay Quadrangle: Newton 7.5' WELL OPERATOR Pennzoil Company DESIGNATED AGENT James A. Crews Address ____ P. O. Box 1588 Address P. O. Box 1588 Parkersburg, WV 26101 Parkersburg, WV 26101 PERMITTED WORK: Drill X / Convert __ / Drill deeper __ / Redrill __ / Practure or stimulate __ Plug off old formation / Perforate new formation / Other physical change in well (specify) PERMIT ISSUED ON 3-20 _____, 19_79 OIL & GAS INSPECTOR FOR THIS WORK: (IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED Name ____ Martin Nichols Address <u>Clendenin, WV</u> ___, 19___ GEOLOGICAL TARGET FORMATION: ____ Big Injun Depth 2119 feet Depth of completed well, 2114 feet Rotary X / Cable Tools _ Water strata depth: Fresh,____feet; salt,____feet. Coal seam depths: ___ Is coal being mined in the area? No CASING AND TUBING PROGRAM CASING OR TUBING TYPE SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILL-UP Grade per ft New Used For drilling Left in well PACKERS OR SACKS Size (Cubic feet) <u>Conductor</u> Kinds Fresh water Coal 8-5/8 365 365 215 sks. Sizes Intermediate 4-1/ Production 2124 2124 50 sks. Depths set Tubing Liners Perforations: Top Bottom OPEN FLOW DATA Producing formation Squaw Water Injection Well Pay zone depth 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 RECENTED 2014 Static rock pressure, _____ psig (surface measurement) after _____ Office of Chand Gas [If applicable due to multiple completion--] Pay zone depth FEB 21 2014 Second producing formation ____ Gas: Initial open flow, _____Mcf/d Oil: Initial open flow, wv Department of Final open flow, Mcf/d Final open flow, Engranmental Protection

Time of open flow between initial and final tests, _____ hours

Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

FORM IV-35 (Reverse)

[08-78]

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

Fractured w/250 gals. 15% HCL, 150 BW, 1000# 20/40 sd.

WELL LOG

| FORMATION | Color | llard or Soft | | Bottom | Remarks Including indication of all fresh and salt water, coal, oil and gas |
|--------------|-------|------------------|----------|--------|-----------------------------------------------------------------------------|
| Shale & Sand | 99.01 | 3016 | Top Feet | Feet | and salt water, coal, oil and gas |
| Sand | | Ì | 0 | 230 | |
| Shale | | 1 | 230 | 268 | |
| Sand | | J | 268 | 324 | |
| Shale | | ľ | 324 | 476 | · |
| Sand | 1 | 1 | 476 | 554 | |
| Shale | ii | j | 554 | 714 | |
| Sand | ł | · · | 714 | 726 | |
| Shale | | | 726 | 732 | |
| Sand | ſ | ſ | 732 | 754 | |
| Shale | | | 754 | 790 | |
| Sand | | 1 | 790 | 800 | |
| Shale | | | 800 | 866 | |
| Sand | 1 | | 866 | 876 | |
| Shale | | | 876 | 926 | |
| Sand | 1 | ĺ | 926 | 932 | |
| hale | } | | 932 | 940 | |
| and | | | 940 | 956 | |
| hale | | ' | 956 | 990 | |
| and | | | 990 | 1008 | |
| hale | 1 | 1 | 1008 | 1038 | |
| and | 1 1 | | 1038 | 1096 | |
| hale | | | 1096 | 1102 | |
| and | 1 | | 1102 | 1154 | |
| hale | 1 | ! | 1154 | 1166 | |
| and | 1 1 | J | 1166 | 1278 | |
| hale | | ĺ | 1278 | 1358 | |
| and | 1 | | 1358 | 1420 | |
| nale | | Į. | 1420 | 1444 | , |
| and | 1 | 1 | 1444 | 1452 | |
| nale | 1 | ł | 1452 | 1546 | • |
| and | | | 1546 | 1552 | |
| nale | 1 | | 1552 | 1612 | |
| ind | 1 1 | | 1612 | 1620 | |
| iale | 1 1 | ĺ | 1620 | 1654 | |
| ind | | 1 | 1654 | 1668 | |
| ale | 1 | · [| 1668 | 1782 | |
| | 1 | - 1 | 1782 | 1842 | |

(Attach separate sheets to complete as necessary)

| Well Operator | |
|---------------|------------|
| Ву | 05/09/2014 |
| Its | D. |

NOTE: Regulation 2.02(i) provides as follows:

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

Office of Oil and Gas

FEB 21 2014

WV Department of Environmental Protection Page 2

FORM IV-35 (Reverse)

47-015-1596-WI

[08-78]

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

WELL LOG

| FORMATION | Color | llard or Soft | Top Feet | Bottom Feet | Remarks Including indication of all free and salt water, coal, cil and s |
|----------------------|-------|------------------|----------|----------------|--------------------------------------------------------------------------|
| Sand | | 33.0 | 1842 | 1860 | and sait water, toal, oil and g |
| Little Lime | | | 1860 | 1916 | |
| Pencil Cave | | | 1916 | 1934 | |
| Big Lime | | | 1934 | 1980 | |
| Loyalhanna Keener | | | 1980 | 2042 | |
| Reener Big Injun | | } | 2042 | 2058 | |
| Shale | ł | } | 2058 | 2086 | |
| Squaw | | j | 2086 | 2118 | · |
| | | | 2118 | 2140 | |
| Total Depth | | | | 2140 | · |
| PBD | | | | 2114 | |
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(Attach separate sheets to complete as necessary;

Pennzoil Company

Well Operator

By Cutto a Benar 05/09/2014

xxx Civil Engineering Dept.

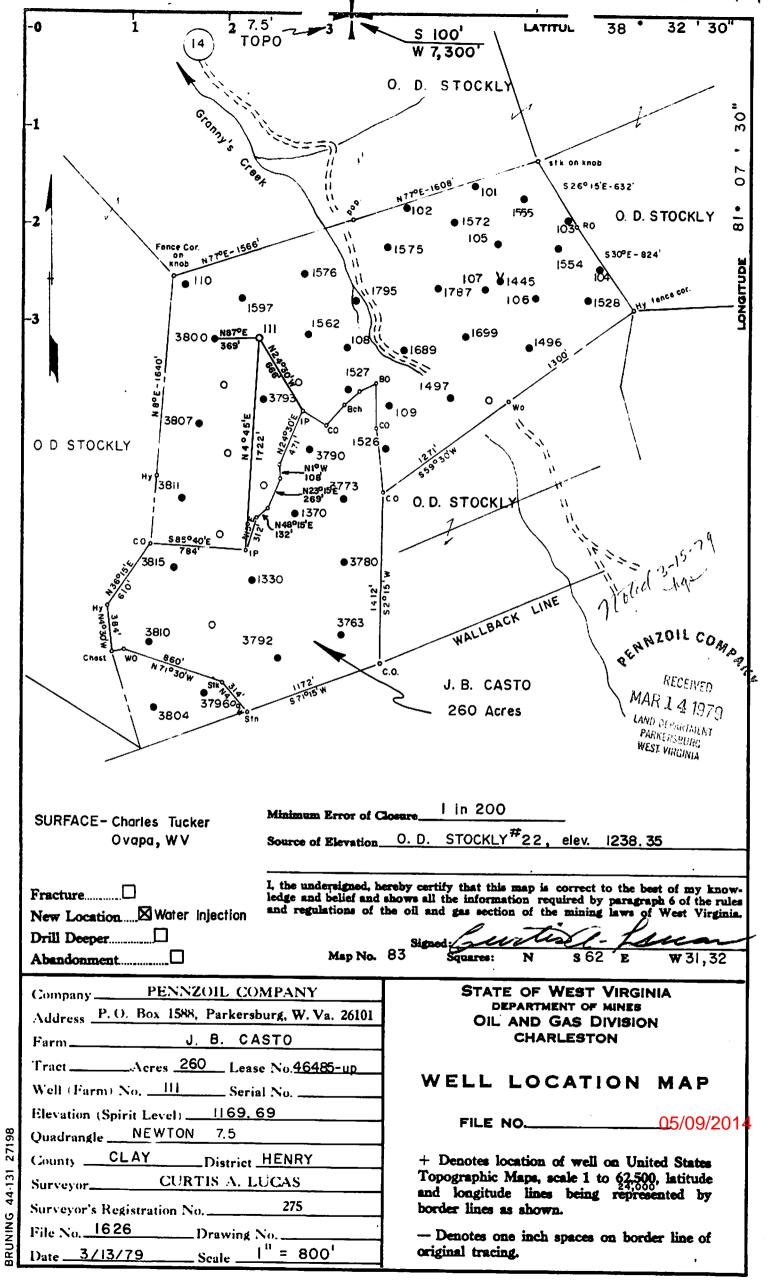
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Office of Oil and Gas

FEB 21 2014

WV Department of Environmental Protection

NOTE: Regulation C.02(i) provides as follows:

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



N. McCullough

BOND CEMENT AND OR SONIC SEISMOGRAM LOG

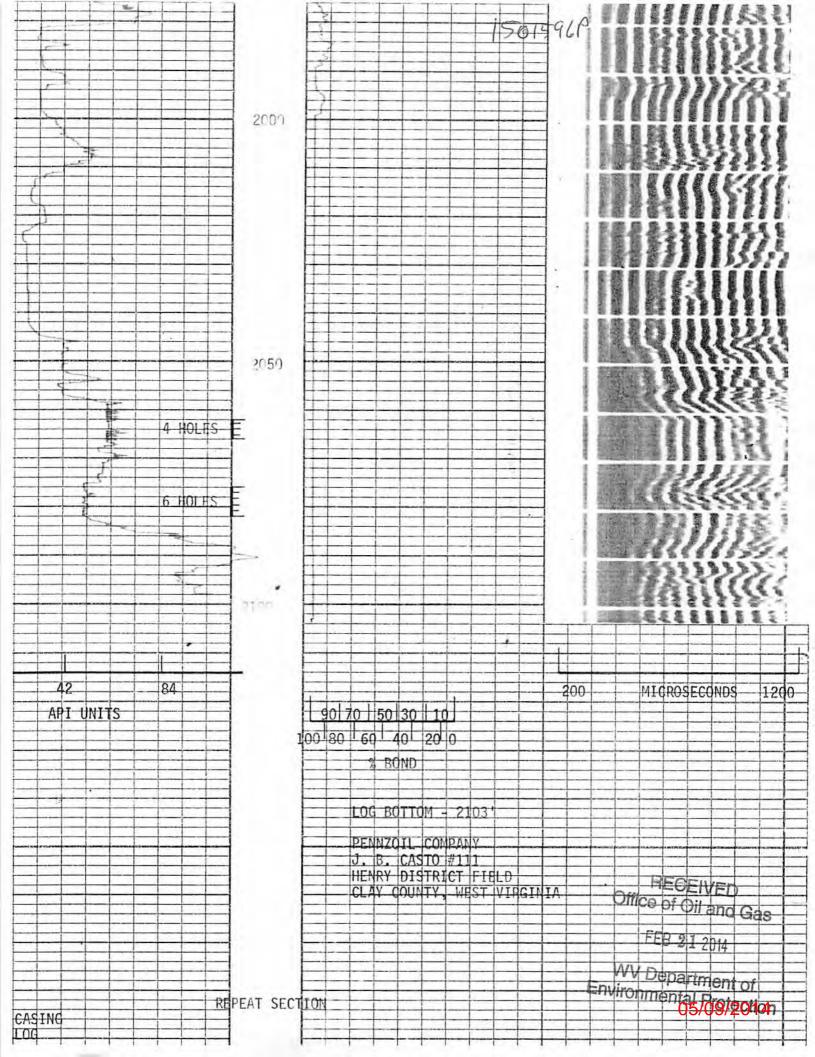
GAMMA RAY

| FILING | NO. | | | | | | | |
|-------------|-----------|-------------|----------------------|--------------------|-----------|----------|----------------|--|
| HBC-GR- | -55-9892 | СОМР | ANY_ PEN | NNZOIL C | OMPANY | | | |
| 100,400 300 | | WELL | WELL J.B. CASTO #111 | | | | | |
| | | WELL | | | | | | |
| | | FIELD | FIELD HENRY DISTRICT | | | | | |
| | | COUN | CLA | (Y | | STATE WE | EST VIRGINIA | |
| PENIZOI C | FILE CC. | LOCAT | GRANNY | 'S CREE 17.5' Q | | | OTHER SERVICES | |
| | fine o | SEC. | T | WP. | RGE. | | ELEVATIONS: | |
| PERMA | NENT DAT | им | GL | ELEV. | 1169.69 | | KB 1177.69' | |
| LOG ME | ASURED | ROM . | KB | | 1103.03 | | DF 1176.69' | |
| DRILLI | NG MEASU | RED FROM | KB | | | | GL 1169.69' | |
| DATE | | | 8-14-7 | 9 | | | | |
| RUNNO |), | - | ONE | | STATE OF | 10.00 | | |
| TYPE LO | OG | | BOND C | EMENT-G | AMMA RAY- | SONIC SE | ISMOGRAM | |
| DEPTH- | DRILLER | | 2140' | | | | | |
| DEPTH- | LOGGER | | 2107' | | | | | |
| BOTTOM | LOGGED | INTERVAL | 2103' | | | | | |
| TOP LO | GGED INT | ERVAL | 1520' | | | | | |
| TYPE FL | UID IN HO | DLE | WATER | | | | * | |
| SAL | INITY PPM | CL. | 22.70-310-2 | | | | | |
| DEN | SITY LB./ | GAL. | | | | | | |
| LEV | EL | | FULL | | | | | |
| MAX. RE | C. TEMP. | DEG. F. | | 201 | | | | |
| OPR. RI | | | 1 HOUR | | | | | |
| RECOR | | | MAYFIE | | | | | |
| WITNES | SED BY | | MR. HE | LDMAN | | | | |
| RUN | воя | RE HOLE REC | ORD | n U - | CA | SING REC | ORD | |
| NO. | BIT | FROM | то | SIZE | WGT. | FROM | то | |
| 1 | | | | 8-5/8 | 34 | .0 | 365' | |
| 6 | -3/4 | 365' | TD | 4-1/2 | 2.0 | 0 | TD | |
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| ALC: NO | - | | | | | | RECE | |

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Office of Oil and Gas

FEB 21 2014

WV Department of Environmenta | 15/09/2014



WW-4A Revised 6-07

| 1) Date: | January 30, 2014 | |
|------------------|------------------|--|
| 2) Operator | 's Well Number | |
| J.B. Casto # 111 | | |
| | | |

3) API Well No.: 47 -

- 01596

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

| 4) Surface Ow | ner(s) to be served: | 5) (a) Coal Operato | p [*] |
|---------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (a) Name | Triad Hunter, LLC | Name | N/A |
| Address | 125 Putnam Street | Address | 200 |
| 11mm Coo | Marietta, Ohio 45750 | | |
| (b) Name | Manda, Ono Horoc | — (h) Coal Or | wner(s) with Declaration |
| Address | - | Name | N/A |
| Address | - | Address | N/A |
| | - | Address | - |
| (-) Manage | | Mana | - |
| (c) Name | | Name Address | Van de la company de la compan |
| Address | - | Address | 4 |
| 6) Inspector | Ed Gainer | (c) Coal Le | essee with Declaration |
| Address | P.O. Box 821 | Name | N/A |
| 1.0000000000 | Spencer, W.V. 25276 | Address | |
| Telephone | (304)389-7582 | | |
| retephone | (001)0001002 | | |
| Protection, the Applic | ing documents for a permit to plug and aband with respect to the well at the location descri- | on a well with the Chief of t bed on the attached Applica stered or certified mail or d | I operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental tion and depicted on the attached Form WW-6. Copies of this Notice, elivered by hand to the person(s) named above (or by publication in |
| | | | |
| | Well Opera | the state of the second second | 16.1/2 |
| | By: | Rocky Roberts | 1 Com (Coron) |
| | Its: | Senior V.P. Appalac | chian Operations |
| | Address | 125 Putnam Street | 1. |
| | | Marietta, Ohio 4575 | 0 |
| | Telephone | (740)374-2940 | |
| Subscribed and | sworn before me this 30th | day of Jan | Notary Public |
| M.C. | COLL R DEF | 7) 7) | 2 / 1 o |
| My Commission | Expires | V 2-2 | T-LIP - I II - I was also all Ohio. |
| Oil and Gas Priva | acy Notice | | 2 RECEIVED |
| The Office of Oil | and Gas processes your personal in | formation, such as nar | me, address and phone number fireport Giluand G |

The Office of Oil and Gas processes your personal information, such as name, address and phone number in 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.

WV Department of Environmental Protection

WW-9 Rev. 5/08

| P | age 1 | 1 | of 2 | |
|---------------------|---------|-----------|-------|--|
| API Number 47 - 0 | 15 | 1.0 | 01596 | |
| Operator's Well No. | J.B. Ca | asto # 11 | 1 | |

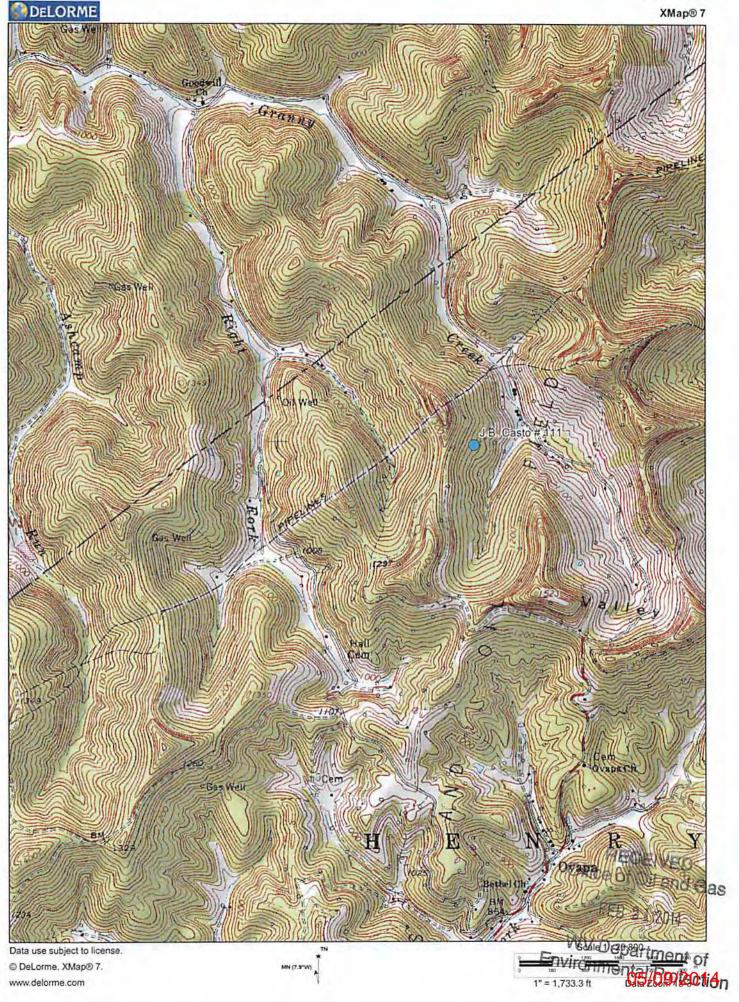
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

| Vatershed_Grannys Creek Clevation 1203' GPS County_Clay Description of anticipated Pit Waste: No Pit; fluids will be Vill a synthetic liner be used in the pit? "No Pit" | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Description of anticipated Pit Waste: No Pit; fluids will be | |
| rescription of anticipated Pit waste. | |
| Vill a synthetic liner be used in the pit?* No Pit * | separated at Ovapa Facility; oil stored and salt water re-injected. |
| | - |
| roposed Disposal Method For Treated Pit Wastes: | |
| Land Application | nemit Number |
| Underground Injection (UIC Pe Reuse (at API Number | ermit Number) |
| Off Site Dispposal (Supply form | WW-9 for disposal location) |
| Other (Explain_ | 1 W W - 7 for disposar location) |
| roposed Work For Which Pit Will Be Used: | |
| Drilling | Swabbing |
| Workover | Plugging |
| Other (Explain_ | |
| pplication form and all attachments thereto and that, b | |
| July Children Colored | |
| Company Official (Typed Name) Rocky Roberts Company Official Title Senior V.P. Appalac | chian Operations |
| Company Official (Typed Name) Rocky Roberts Company Official Title Senior V.P. Appalac | lanuary14 |
| Company Official (Typed Name) Rocky Roberts Company Official Title Senior V.P. Appalac | January , 20 14 RECEIVED Office of Oil and |
| Company Official (Typed Name) Rocky Roberts Company Official Title Senior V.P. Appalac | lanuary14 |

1501596P

| | | LEGEND | |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|------------------------|
| Property Boundary | ~ | Diversion William | MILLIAN MARKET |
| Road = = = = = = = | = = = | Spring O | |
| Existing Fence — X — X | | Wet Spot | |
| Planned Fence//_ | - / - | Drain Pipe with size in inche | |
| | · | | \leftrightarrow |
| Open Ditch | | Cross Drain | |
| North N | | Pit: cut walls | ******* |
| Buildings 📟 | | Pit: compacted fill walls | much |
| Water wells W | | Area for Land Application of | Pit Wasie |
| Drill site | | 6 | |
| | | C | N- 1-2 |
| Proposed Revegetation Treatment: Acr | res Disturbed One | Prevegetation | _{pH} 5.5 |
| | /acre or to correct to p | | |
| | | | |
| Fertilizer (10-20-20 or equival | ent) 000 | lbs/acre (500 lbs minimum) | |
| Mulch 90 - 100 bales | s/acre _{Ton} | s/acre | |
| | S | eed Mixtures | |
| Area I | rate and the same | | Area II |
| | acre | Seed Type | lbs/acre |
| Orchard Grass | 30% | | |
| Rye (Annual & BT) | 35% | 1 | |
| Timothy (Climax) | 25% | | |
| Clover Med. Red) | 10% | | |
| Attach: Drawing(s) of road, location,pit and pro Photocopied section of involved 7.5' to | | application. | |
| Plan Approved by: | | 7 | |
| | | | |
| Comments: | | | |
| | | | RECEIVED |
| Title: Inspector | | Date: 2/4/14 | Office of Oil and Gas |
| Field Reviewed? () | Yes 🔾 |) No | FEB 2 1 2014 |
| | | | WV Departs |
| | | | Environmenta 5/09/2014 |





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

| WELL | LUCATIO | V FORWI: | 313 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| API: 47-015-01596 | | WELL N | o.: 111 |
| FARM NAME: J.B. Ca | sto | | |
| RESPONSIBLE PARTY NA | ME: Triad H | Hunter, LL | C |
| COUNTY: Clay | | _DISTRICT: | Henry |
| QUADRANGLE: Newto | n | 3.7.11.100 | |
| SURFACE OWNER: Tria | ad Hunter | LLC | |
| ROYALTY OWNER: Kar | nawha Ba | nking and | Trust Co. et al |
| UTM GPS NORTHING: 42 | | | |
| UTM GPS EASTING: 048 | | GPS ELE | VATION: 1203' |
| above well. The Office of Oil at the following requirements: 1. Datum: NAD 1983, height above mean service and the control of | Zone: 17 North, sea level (MSL) - 3.05 meters thod: | Coordinate Uni – meters. | ts: meters, Altitude: |
| | eal-Time Differe | | |
| Mapping Grade GPS X: | | 6.3 | _ |
| | Real-Time Dif | ferential X | |
| 4. Letter size copy of I the undersigned, hereby certified belief and shows all the inform prescribed by the Office of Oil | | the same water to the same to be a second to the same to the same to be a second to the same to be a s | the well location. of my knowledge and RECEIVED gulations issue Office of Oil and Gas |
| Bon Impether | | ogist | 1/16/14 21 2014 |
| Signature | | Title | Environmental Projection |



Chuck Taylor

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 | J.B. Casto # 111 |
|------------------------------|---------|--------------|---------|------------------|
| lon -81.154048765206 | >> | x (easting) | 0486575 | 5, D, CA310 |
| lat 38.5415937905072 | << | y (northing) | 4265920 | - |
| | | zone | 17 | |
| | | hemisphere | N OS | |

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)

