

## 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

July 11, 2013

### WELL WORK PLUGGING PERMIT

## Plugging

This permit, API Well Number: 47-1500168, issued to EQT PRODUCTION COMPANY, 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

Janues Mai

Chief

O. S. Brookle

Operator's Well No: WV 412581 (THOMPSON #39)

Farm Name: BLOCH, STEPHANIE, ET AL

API Well Number: 47-1500168

Permit Type: Plugging
Date Issued: 07/11/2013

Promoting a healthy environment.

Form WW-4 (B) Permit Copy (Rev 2/01)

| Date:           | May 2/ 2013 |        |     |            |  |
|-----------------|-------------|--------|-----|------------|--|
| Operator's Well |             |        |     |            |  |
| Well No.        | WV          | 412581 | (Th | ompson#39) |  |
| API Well No.:   | 47          |        |     | 00168      |  |

## STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

| 3.7.5   |                                  |  |              |   |  |  |
|---|----------------------------------|--|--------------|---|--|--|
| APPLICATION FOR A PERMIT TO PLUG AND ABANDON  |                                  |  |              |   |  |  |
|   | quid Injection                   | Waste Dispo  | sal:         |   |  |  |
| If Gas, Production X Or Undergro  | ound storage                     | Deep   |              | Χ |  |  |
|   | Charley Branch                   |  |              |   |  |  |
| Location: Pleasant County: District:  | Clay                             | Quadrangle:  | Elkhurst 7.5 | ' |  |  |
| 6) EQT Production Company Well Operator Address: EQT Production Company 120 Professional Place Bridgeport, WV 26330                             | 7) Designat<br>Address:          | ed Agent: Rex C. 120 Professional Bridgeport, WV 2 | Place        |   |  |  |
| 8) Oil & Gas  | 9) Plugging<br>Name:<br>Address: |  | Service      |   |  |  |
| RECEIVED Office of Oil & Gas  |                                  |  |              |   |  |  |
| WV Department of Environmental Protection   |                                  |  |              |   |  |  |
|   |                                  |  |              |   |  |  |
| OFFICE  | USE ONLY                         |  |              |   |  |  |
| Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.  Work order approved by inspector |                                  |  |              |   |  |  |

### PLUGGING PROGNOSIS

## Thompson Land & Coal "T" 39 (412581)

CLAY, COUNTY, WEST VIRGINIA API # 47-015-00168

Clay N.W. Quad

Elevation: 1304'

BY: Craig Duckworth

DATE: 01/07/13

## CURRENT STATUS:

10" csg

@ 537

8 1/4" csg

@ Pulled

6 5/8" csg

@ Pulled

5 1/16"csg

@ 2104'

2" tbg

@ 2294' Packer @ 2191' 2 x 5 3/16

TD @ 2271

Fresh Water @ None Reported

Salt Water @ 1297'

RECEIVED
Office of Oil & Gas

1st Salt Sand @ 1153'

Coal @ 514'-517'

Gas shows @ Gas Sand 1088' & 1st Salt Sand 1185' & Injun Sand 2229'

MAY 2 9 2013

Oil Shows @ 1197'-1205'

Stimulation: Shot 11/22/39 @ 2218'- 2251' 90 qts.

WV Department of Environmental Protection

- 1. Notify State Inspector, Ed Gainer 304-389-7582, 24 hrs prior to commencing operations.
- 2. Attempt to pull 2" tbg and packer set @ 2191'. If tbg and packer will not pull TIH w/ wireline to 2191' and cut 2" tbg @ 2191'. TOOH w/ tbg and check condition.
- 3. TIH w/ tbg @ 2191'; Set 100' C1A Cement Plug @ 2191' to 2091' (Packer, Injun Sand)
- 4. TOOH w/ tbg @ 2091'; gel hole @ 2091' to 2069'
- 5. Attempt to pull 5 3/16" csg. If csg will not pull ,cut/shoot at freepoint 5 3/16"
- Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas shows below 5 3/16" cut. Do not omit any plugs
- 7. TOOH w/ tbg @ 2069'; Set 100' C1A Cement Plug @ 2069' to 1969' (5 3/16" csg.)
- 8. TOOH w/ tbg @ 1880'; gel hole @ 1969' to 1297'
- 9. TOOH w/ tbg @ 1297'; Set 259' C1A Cement Plug @ 1297' to 1038' (SW @ 1297',1st Salt Sand 1153'; Gas Show 1185'; Oil Show 1205'; Gas Show 1088).
- 10. TOOH w/ tbg @ 1038'; gel hole @ 1038' to 587'.
- 11. Set a 100' C1A Cement Plug 50' In/Out of cut. Perf all FW, Coal, Oil and Gas Shows below 10". Do not omit any plugs.
- 12. TOOH w/ tbg @ 587'; Set 123' C1A Cement Plug @ 587' to 464'(Coal 514'-517' & 10"@ 537')
- 13. TOOH w/ tbg @ 467'; gel hole @ 464' to 200'
- 14. TOOH w/ tbg @ 200'; Set 200' C1A Cement Plug @ 200 ' to 0 ( Surface)
- 15. Top off as needed
- 16. Set Monument to WV-DEP Specifications
- 17. Reclaim Location & Road to WV-DEP Specifications

5/28/13

## WEST VIRGICIA DEPARTMENT OF MINES OIL & GAS DIVISION WEST L R E C O R D

|                              | A B I I D D C C D                                 |                        |
|------------------------------|---|------------------------|
| Permit Wo. Cin-16            | WELL RECORD                                       |                        |
| Clay Quad.                   | · <del>-</del>                                    | Cas Well               |
|                              |   | CASTIN & TIBLING       |
| Company                      | Thorpson One Co.                                  |                        |
| Accross                      | Nov 1250 About                                    | 13-1/2 20 20           |
| Fram                         | Box 1358, Christon, 7, Vn.                        | ***                    |
| Well !:o.                    | Thomason Louid & Goal Co. ACRES 5,000             | 8-1/4 1757 pulled      |
| District                     |   | E-3/0 0030             |
| l'ineral                     | Fige sont - Cley County                           |                        |
| Addross                      | Thompson Land & Coal Co.                          |                        |
| Commonced                    | State College Page                                | 2 2294 2271            |
| Completed                    | Aur. 31, 1939                                     | Dankan Arra            |
| Shot                         | Nov. 30, 1939                                     | Packer - 07 3as nacker |
| Volume                       | 11/22/39 - Depth 2216-2251                        | Size - 2x5-3/16x16     |
| Rock Fressure                | Tay Day C.I. 24 heal                              | Donth set - 2101       |
| Cole Pressme                 | old the 48 hrs.                                   | Per: ton - 2233        |
| Salt Retor                   | 1297 and 1430                                     | " bot- 2251            |
|                              |   |                        |
|                              |   | Coal at:               |
|                              |   | 514' 36"               |
|                              |   |                        |
| Orrvel                       | 0 15  |                        |
| Fire Clay                    | 15 22   |                        |
| จักกรุ                       | 22 51   |                        |
| 3 Leto                       | 51 56   |                        |
| 84 md                        | 56 140  |                        |
| dle to                       |   |                        |
| Symu                         |   |                        |
| älate                        |   |                        |
| Lime                         |   |                        |
| Riato                        | 269 328   |                        |
| Lino                         | 328 338   |                        |
| Ennd                         | 338 365   |                        |
| Sinte&Sholls                 | 365 415 ·   |                        |
| Clack Lime                   | 415 433   |                        |
| 3lato                        | 433 445   |                        |
| ė, ad                        | 445 446   |                        |
| Sinte&Shells                 | 446 493   |                        |
| Line                         | 493 504   |                        |
| Citi                         | 504 514   |                        |
| 5.∴d                         | 514 517   |                        |
|                              | 517 570   |                        |
| Slade & Shells<br>Slade Line | 570 6 <b>6</b> 0                                  |                        |
| Gertaer 24                   | 640 666   |                        |
| Gritty Limo                  | 666 700   |                        |
| Slate&Sholls                 | 700 739   |                        |
| Gritty Limo                  | 739 757   |                        |
| 81ate2Sholls                 | 767 981   |                        |
| Skud                         | 981 1045  |                        |
| Black Slate                  | 1045 1048   | t .                    |
| Sand                         | 1048 1064   |                        |
| Slate                        | 1064 1070   |                        |
| Gas Sand                     |   |                        |
| Slate & Sand Shells          | 1070 1125 Gas Show 1085<br>1125 1153              |                        |
| lat Salt Sand                | 1360 3000 0 ·                                     |                        |
| Slate & Sholls               | 1153 1370 Ons show 1185*. Oil show 118            | 7-1205                 |
| 2nd Salt Sand                | 10. 401 Last - 1 him nan hu                       |                        |
| Slate & Shells               | -4464 4016 Mator lasor - bold will - b            | tile Rend 1408 240m    |
| Broken Laxon Send            | 1672 1733   | Actus 90010 1450-1483  |
| Hond there are               | 1733 1.792  |                        |
| Hard Park & Sand             | 1792 1802 ORS FIRLL Show 2229                     | •                      |
| Red Rock & Shells            | 1002 1070 Ore 2229-2224 - Co 000                  |                        |
| SintceShells                 | 1875 1970 Dacraged at 22471 4- 05 200             |                        |
| Little Line                  | 1050 2047 7 hrs. later = 77,000 c.f.              | C.I.                   |
| Pencil Cave                  | 2047 2061 30 hrs. later- 63,000 c.f.              |                        |
| Big Limo                     | 2061 2218   |                        |
| Injun Send                   |   | <b>4</b> = •           |
| Rod Rock                     | 2218 2251 Initial onon flow 169,000 c.r 2251 2271 | • (24 hrs.)            |
| Total Donth                  | 2271 812!   |                        |
|                              | <del></del>                                       |                        |

Received

MAY 2 3 2013

LATITUDE 38° 25" Thompson hand & Coulco ) 0.5HL, in Sto.pilt by road in low 90p Between Ochy, Cr. f Saed lick STH. INSto.Pile Thomson Land & Cool Co Oiles Hall land Colling Co. Coalf Surface Thompson Lond & Cool Co Some el And Forsylne Stephenson Osa Harland Colliery Co Coolf Surfore SIK. in Sto. Pile with Beh. Ptrs. on Wilson line New hocotion Company Thompson Gas Co. STATE OF WEST VIRGINIA Address Charleston, W.Va. Department of Mines Farm Thompson Land & Coal Co. OIL AND GAS DIVISION Tract

Scale

Office of Oil and Gas WV Dept. of Environmental Protection

Acres 5000 Lease No. T - 3 T - 39 Sorial No. Woll(Farm)No. 18 El.(8.L.) 1304.62 Quadranglo Clay N.W. County Clay District Ploasant Eng. D.A.Bolchor Filo No. 546. Sec. 2 - A - 1 Date 8/28/39

1" - 13201

Charleston

WELL LOCATION MAP

Filo No. Clav-168

x Donotos location of well on U.S. 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 b of original tracing.

| WW-4-A       |  |
|--------------|--|
| Revised 6/07 |  |

## STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS NOTICE AND APPLICATION TO PLUG AND ABANDON WELL

Check# 15539

|     |                 | 47 47 18 18 17 17 17 17 18 17 17 17 17 17 17 17 17 17 17 17 17 17 |   |               |                                 |
|-----|-----------------|---|---|---------------|---------------------------------|
| 1)  | Surace Owner(s) | to be served:   |   | 5) (a) Coal ( | Operator:                       |
|     | (a) Name        | Mr. Edward Stephenson Jr. et al                                   |   | Name          | None                            |
|     | Address         | 50 Washington St. 4th Floor                                       |   | Address       |                                 |
|     |                 | Norwalk, CT 06854   |   |               |                                 |
|     | (b) Name        |   |   | (b) Coal Own  | er(s) with Declaration          |
|     | Address         |   |   | Name          | Mr. Edward Stephenson Jr. et al |
|     |                 |   |   |               | 50 Washington St. 4th Floor     |
|     |                 |   |   | Address       | Norwalk, CT 06854               |
|     | (c) Name        |   |   | Name          |                                 |
|     | Address         |   |   | Address       |                                 |
|     |                 |   | - |               |                                 |
| 3)  | Inspector       | Ed Gainer   | V | (c) Coal Less | see with Declaration            |
| Tix | Address         | P.O. Box 821  |   | Name          | None                            |
|     |                 | Spencer, WV 25276   |   | Address       |                                 |
|     | 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 Division 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.

| Will Operator:                      | EQT Production Company                  |
|-------------------------------------|---|
| S'A' GINIA BUE                      | Victoria J.Roark                        |
| FIC Its                             | Permitting Supervisor                   |
| Actiress:                           | PO Box 280                              |
| Bridgept A 30                       | Bridgeport, WV 26330                    |
| My Commission 1 20 7 elephone:      | (304) 848-0076                          |
| Subscribed and sworn before me this | day of May , 2013 Notary Public Cel Veo |
| My Commission Expires: 8-24-22      |   |

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

WW-9 Revised 2/03

| Page of          |       |        |       |
|------------------|-------|--------|-------|
| 2) Operator's We | II Nu | mber   | 3     |
| WV 412581 (Tho   | mps   | on#39) |       |
| 3) API Well No.: | 47    | 015 -  | 00168 |

## STATE OF WEST VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

| Operator Name:  | EQT PROD   | UCTION COMPANY   |  | OP ID  | :   |   |
|---|--|--|--|--|---|---|
| Watershed:  |  | Charley Branch   |  | Quadrangle:  | Elkhurst  | 7.5'  |
| Elevation:  | 1300 '   | County:  | Clay   | District:  | Pleasa  | ant   |
| Description of antic  | pated Pit Was  | ste:   |  | Formation Fluid  | s   |   |
| Do you anticipate u   |  | n 5,000 bbls of water<br>pit? Yes  | to complete th   | A TO A STREET OF THE OWNER | rk? Yes<br>30 ml  | _ No_X  |
| Proposed Disposa X  | Land Ap Undergro Reuse (a  | plication<br>ound Injection - UIC P<br>at API Number)<br>isposal Permit #.   | ermit Number   |  |   |   |
|   | ticipated for thi<br>sed, what type  | s well? Air, freshwate? Synthetic, petroleur   |  | etc  |   |   |
| If left in  | sal method? L  | eave in pit, landfill, re  |  |  |   |   |
| issued on August understand that the permit and/or othe I certify under pena application form ar for obtaining the in | I, 2005, by the<br>e provisions of<br>r applicable law<br>alty of law that<br>nd all attachme<br>formation, I be | agree to the terms and Office of Oil and Gas the permit are enforce or regulation can lead have personally examples thereto and that, believe that the information, incomparison, incomp | of the West Veable by law. Indicate to enforce of the mined and amples on my interpretation is true, according to the mined and are the mi | Irginia Division of El<br>Violations of any ter<br>nent action.<br>Infamiliar with the inf<br>nquiry of those indivi<br>curate and complete  | nvironmental Pr<br>rms or condition<br>ormation submi<br>iduals immediat<br>e. I am aware | rotection. In of the general litted on this tely responsible                  |
| Company Off   | cial Signature   |  | ul   | o pa   |   | MAY 2 3 2013  |
| Company Off   | cial (Typed o  | r Printed) Victor  | ia Roark   |  |   |   |
| Company Off   | cial Title   | Permittin  | g Superviso  | r-WV   | 1   | Office of Oil and Gas   |
| Subscribed and  | l sworn beføre   | me this 21   | day of _   | May  | ·   | 2013  |
| My Commissio  | n Expires _  | 8-24-2   | 22   | Notary   | Publicum  | OFFICIAL SEAL STATE OF WEST VIRGING HOTARY PUBLIC Pamela Syles EQT Production |

## OPERATOR'S WELL NO.: WV 412581 (Thompson#39)

## **LEGEND**

|  | •   |  | /////////  | -                |
|--|---|--|--|------------------|
| _  | Sprii   | ng   | Wet Spot   |                  |
| Road<br>========   | 0—  | <b>→</b>                                     | 4  |                  |
| Planned Fence  | Drain Pipe with size  | e in inches                                  | Water Way  |                  |
| _/_/_/   | 12  | <b></b>                                      | <b>←→ ←</b>                                      |                  |
| Existing Fence   | Stream  | <b>4</b> =                                   | Cross Drain RECEIV                               | ED               |
| Open Ditch   | Artificial Filter S   |  | Rock  MAY 29 2                                   |                  |
| North<br>N —   | Building  | Water well                                   | Drill stav Departn                               | nent o<br>Protec |
| Pit with Cut Walls   | Pit with Compacted  | Walls Area o                                 | f Land Application of Pit Wast                   | е                |
| osed Revegetation Treatmer   | nt: Acres Disturbed: 1±   | Provogatatio                                 | n nU 5.0   |                  |
|  |   | rievegetatio                                 | 11 PH 5.8  |                  |
|  |   |  | n pH 5.8   |                  |
| Lime3Tons  | /acre or to correct to pH   | 6.5  |  |                  |
| Lime 3 Tons<br>Fertilizer (10-20-20) or equi   | valent 1/3  | 6.5  |  | n)               |
| ime 3 Tons<br>Fertilizer (10-20-20) or equi  | valent1/3 /acre or hydroseed.   | 6.5  |  | n)               |
| ime 3 Tons<br>Fertilizer (10-20-20) or equi  | valent 1/3  | 6.5  | lbs/acre (500 lbs minimum                        | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons  Area I   | valent1/3 /acre or hydroseed.   | 6.5  | lbs/acre (500 lbs minimum                        | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons Area I Seed Type  | valent 1/3 valent 1/3 vacre or hydroseed. SEED MIXTURES   | 6.5<br>ton                                   | Ibs/acre (500 lbs minimum  Area II  Ibs/acre     | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons Area I Seed Type  | valent 1/3 vacre or to correct to pH valent 1/3 vacre or hydroseed. SEED MIXTURES  Ibs/acre 40  | 6.5<br>ton                                   | lbs/acre (500 lbs minimum                        | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons   | valent 1/3 vacre or to correct to pH valent 1/3 vacre or hydroseed. SEED MIXTURES  Ibs/acre 40  | 6.5 ton Seed Type Orchard Grass              | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons Area I Seed Type  KY-31 Alsike Clover Annual Rye  | lyalent 1/3 lyalent 1/3 lyalent SEED MIXTURES  Ibs/acre  40 5   | 6.5 ton Seed Type Orchard Grass              | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| ime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons Area I Seed Type  (Y-31 Alsike Clover Annual Rye   | s/acre or to correct to pH valent 1/3 s/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15  | 6.5  Seed Type  Orchard Grass  Alsike Clover | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equivalent 2 Tons  Area I  Seed Type  (Y-31  Alsike Clover  Annual Rye  ATTACH:  Drawing(s) of road, location, pi   | s/acre or to correct to pH valent 1/3 s/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15 15  it and proposed area for land approposed area for land appropriate to pH  1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/ | 6.5  Seed Type  Orchard Grass  Alsike Clover | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| Fertilizer (10-20-20) or equivalent and a second section of involved and a section | s/acre or to correct to pH valent 1/3 s/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15 15  it and proposed area for land approposed area for land appropriate to pH  1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/ | 6.5  Seed Type  Orchard Grass  Alsike Clover | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| Lime 3 Tons Fertilizer (10-20-20) or equi Mulch 2 Tons Area I  Seed Type  (Y-31 Alsike Clover Annual Rye   | s/acre or to correct to pH valent 1/3 s/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15 15  it and proposed area for land approposed area for land appropriate to pH  1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/ | 6.5  Seed Type  Orchard Grass  Alsike Clover | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 | n)               |
| Area I Seed Type  (Y-31 Alsike Clover Annual Rye  ATTACH: Drawing(s) of road, location, picture of involver  (Yan approved by:   | s/acre or to correct to pH valent 1/3 s/acre or hydroseed.  SEED MIXTURES  Ibs/acre  40 5 15 15  it and proposed area for land approposed area for land appropriate to pH  1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/3 1/ | Seed Type Orchard Grass Alsike Clover        | Ibs/acre (500 lbs minimum  Area II  Ibs/acre  15 |                  |

Topo Quad: Elkhurst 7.5' Scale: 1 " = 2000' Clay County: Date: April 26, 2013 District: Pleasant Project No: 53-04-00-07 WV 412581 Thompson #39 Topo Z CO Fork Middle WV 412581 Gas Well 47-015-00168 Churlen NAD 27 South Zone N: 505728.05 E: 1957392.16 WGS 84 LAT: 38.388879 LON:-81.148487 Elev: 1299.55 PREPARED FOR: MAY 2 3 2013 **EQT Production Co. Inc.** 1-800-482-8606 P.O. BOX 438 BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 1710 Pennsylvania Ave. WCharleston, WV 25302



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

| API: 47-015-00168 WELL NO.: WV 412581 (Thompson #39)  |
|---|
| FARM NAME: Thompson   |
| RESPONSIBLE PARTY NAME:EQT Production Company   |
| COUNTY: Clay DISTRICT: Pleasant   |
| QUADRANGLE:Elkhurst 7.5'  |
| SURFACE OWNER: Stephanie Bloch, et al   |
| ROYALTY OWNER: Henry B. Davenport   |
| UTM GPS NORTHING: 4248974   |
| UTM GPS EASTING: 487032 GPS ELEVATION: 396 m (1300 ft)  |
| 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 Real-Time Differential 4. Letter size copy of the topography map showing the well location. If 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. |
| Fignature 7-30-2013 Title MAY 2 3 2013  |
| Date  |

| Topo Quad:   | Elkhurst 7.5'  | Scale:      | 1 " = 2000'   |  |
|--|--|-------------|---|--|
| County:  | Clay   | Date:       | April 26, 2013  |  |
| District:  | Pleasant   | Project No: | 53-04-00-07   |  |
| Water  | WV 412581 7  | hompson #   | ±39   | Торо   |
| 0 Potent   | tial water wells within 1000'  LEASANT  Gas well   | 1116        |   | A S A N T  |
| 47-015   | Gas Well  412581  Gas Well  Gas Well  Gas Well   | iane agent  | Carver Fork  Gas Will   | EM A BATT IN THE B |
|  | Earles Gas water   | Ostorie TEK | N: 50572<br>E: 19573<br>WGS 84<br>LAT: 38.<br>LON: -87<br>Elev: 129 | 392.16<br>388879<br>1.148487   |
| \$ 127.00 P. 10.00 P. | SURVEYING AND MAPPING SERVICES PERFORMED  ALLEGHENY SURVEYS  1-800-482-8606 P.O. BOX 438  BIRCH RIVER, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608 | BY:         | EQT Production C<br>1710 Pennsylvania A<br>Charleston, WV 253       | lve.   |