

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 20, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8101006, issued to EXCO RESOURCES (PA), 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.

Operator's Well No: NEW BEAVER 28B

Farm Name: BEAVER COAL COMPANY

API Well Number: 47-8101006
Permit Type: Plugging
Date Issued: 07/20/2016

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

2

- 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.
- 4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

| | | 81010 |
|-------------|--|---|
| WW-4. 20 | В | 1) Date 5/1/2016 , |
| | 2/01 | 2)Operator's Well No. New Beaver Coal 28-C 3)API Well No. 47- 081-01006 |
| * | ENVIRONMENTAL PROT | GINIA DEPARTMENT OF ECTION OFFICE OF OIL D GAS |
| | APPLICATION FOR A PER | MIT TO PLUG AND ABANDON |
| 4) | | id injection/ Waste disposal/ derground storage) Deep/ Shallow |
| 5) | | Watershed RICHARDSON BRANCH County Releigh Quadrangle LESTER |
| 6) | Well Operator EXCO Resources (PA), LLC Address PO Box 8. Ravenswood, WV 26164 | 7) Designated Agent Diana Stampler/C.T.Corp. Address 5400 D Big Tyler Road Charleston, WV 25301 |
| | Oil and Gas Inspector to be notified Name GARY KENNEDY Address PO Box 268, | Name_R & R WELL SERVICE Address_42 LYNCH RIDGE |
| | NimitZ, WV 25978 PHONE 304 382 8402 | WALTON, WV 25286 |
| | Remove all equipment used to produce well, 2615 of Run in tubing into +/-2615 or to TD Gel hole Set cement plug -/- 2615 to 2240 if possible if Gel +/-2240 to 1580 Cut and pull 4/1/2 at +/-1530 Set cement plug +/-1530 to 1430 into bottom of 7"csg Gel+/-1430 to 1200 7"should be to surface if not cut and pull and set plug Cement +/-1270 to 1100 Gel to +/- 1100 to 570 Cement +/-570 to 310 over coal and water Gel to +/-310to100 ""Set Gel to +/-310to100" Cement +/-310to100 in the produce well, 2615 of Run in tubing into +/-2615 to 2240 if possible in the possible in the produce of the pr | DATE- STEER GAS |
| | | OHIO2 0 6 5016 |

WV Department of Environmental Protection JUN 0 6 2016

07/22/2016

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Operator's Well No.: #28-C Farm Name: BEAVER COAL COMPANY Elevation: 2,400.00 Quadrangle: LESTER Location: District: SLAB FORK County: RALEIGH Latitude: 12250 feet south of 37 Deg. 45 Min. 00 Sec. Longitude: 3500 feet west of 81 Deg. 20 Min. 00 Sec. Company: PEAKE ENERGY, INC. | Casing | Used in | Left | Cement | P.O. BOX 8 RAVENSWOOD, WV 26164 | & | Fillup ! Tubing ! Drilling; in Well! (sx); Agent : Thomas S. Liberatore Size Inspector: RODNEY DILLON |-----|-----|-----|-----|--Permit Issued: 06/09/95 Well Work Commenced: 07/07/95 | 12 3/4 | 21 | 21 | 2 | Well Work Completed: 07/12/95 | Class A | Verbal Plugging Salt Water Depths:_____ Is Coal being mined ? No Coal Depths: see log on back OPEN FLOW DATA Producing Formation 1st Middle Maxon Sand Pay Zone Depth: 2307-2335 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 inital and final tests -- Hours Static rock pressure * psig (surf. pressure) after -- Hours 2nd Producing Form: 2nd Middle Maxon Sand Pay Zone Depth 2483-2508
Gas: Initial open flow -- Mcf/d Oil. Tribial Gas: Initial open flow -- Mcf/d Oil: Initial open flow 9 Bbl/d
Final open flow 1.032* Mcf/d Final open flow 9 Bbl/d
Time of open flow between inital and final tests 12 Hours
Static rock pressure 255 * psig (surf. pressure) after 72 Hours
*Rock pressures & open-flows are combined. NOTE: Details of Fracturing, Perforating, & Well Frogrammental Protection

NOTE: Details of Fracturing, Perforating, & Well Frogram Back. For: PEAKE ENERGY, INC.

By: ___ Thomas S. Liberatore, General Manager

Date: September 25, 1995

FORM WR-35 (Reverse)

PERMIT #: 47-081-1006

28-C

CO. WELL #:

ELEVATION: 2400 GL, 2405 KB

DETAILS OF PERFORATIONS, FRACTURING, OR PHYSICAL CHANGE, ETC.

7/26/95: PERFORATED THE 2nd M. MAX. FROM 2483-2508 USING 55 HOLES 7/26/95: FOAM-FRAC'D 2nd M. MAX. USING 60,000# OF SAND, 238 BBL OF WATER, AND 471,500 SCF OF NITROGEN. PERFORATED THE MID. MAX. FROM 2307-2335 WITH 70 HOLES. FOAM-FRAC'D THE MID. MAX. USING 35,000# SAND, 200 BBL OF WATER, 331,725 SCF OF NITROGEN.

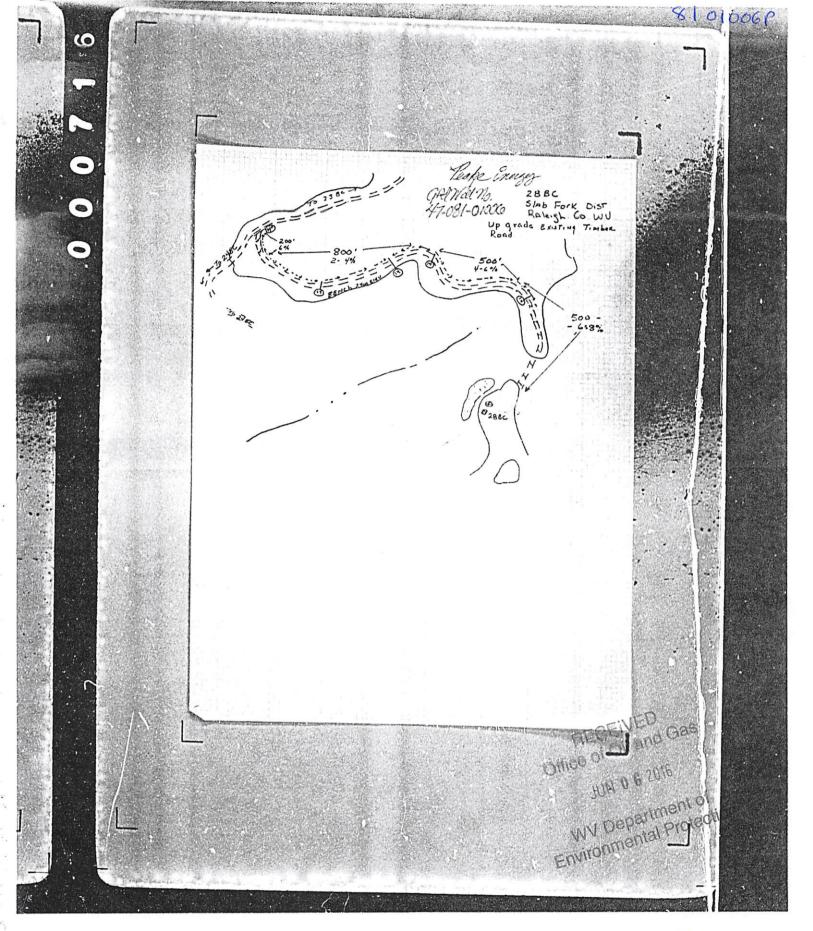
WELL LOG (all depths taken from KB)

| ROCK TYPE OR FORMATION | TOP | BOTTOM | REMARKS |
|------------------------|------|----------|--|
| SANDY SHALE | 0 | 97 | WTR.@70' |
| COAL | 97 | 98 | |
| SAND | 98 | 145 | |
| SHALE | 145 | 262 | |
| SAND | 262 | 316 | |
| SHALE | 316 | 428 | WTR. @ 360' |
| COAL | 428 | 429 | |
| SAND | 429 | 515 | |
| COAL | 515 | 516 | |
| SAND | 516 | 674 | |
| SAND & SHALE | 674 | 910 | |
| SALT SANDS | 910 | 1200 | |
| SHALE & SAND | 1200 | 1560 | |
| PRINCETON SAND | 1560 | 1614 | |
| SHALE | 1614 | 1778 | |
| RAVENCLIFF SAND . | 1778 | 1818 | |
| AVIS LIME | 1818 | 1838 | |
| SHALE | 1838 | 2198 | |
| MIDDLE MAXON STRAY | 2198 | | |
| SHALE | 2216 | 2290 | SEIVED OGG |
| MIDDLE MAXON SAND | 2290 | 2344 | SZGASIO GAS |
| SHALE | 2344 | 2472 | Of Oll or |
| 2nd MID. MAXON SAND | 2472 | 25211106 | SIGNED Gas of Grand Gas S/GASA16 |
| SHALE & LIME | 2521 | 2580 | S/GASYDIG |
| LOWER MAXON SILTSTONE | 2580 | 2684 | V Department of V Department of ronmental Protecti |
| LITTLE LIME (REYNOLDS) | 2684 | 2774 | V Department of V Department of ronmental Protecti |
| BIG LIME (GREENBRIER) | 2774 | 3250 W | V Dopantal Proto |
| SHALE | 3250 | 3367 mi | ronmer |
| TOTAL DEPTH | 3367 | Film | |

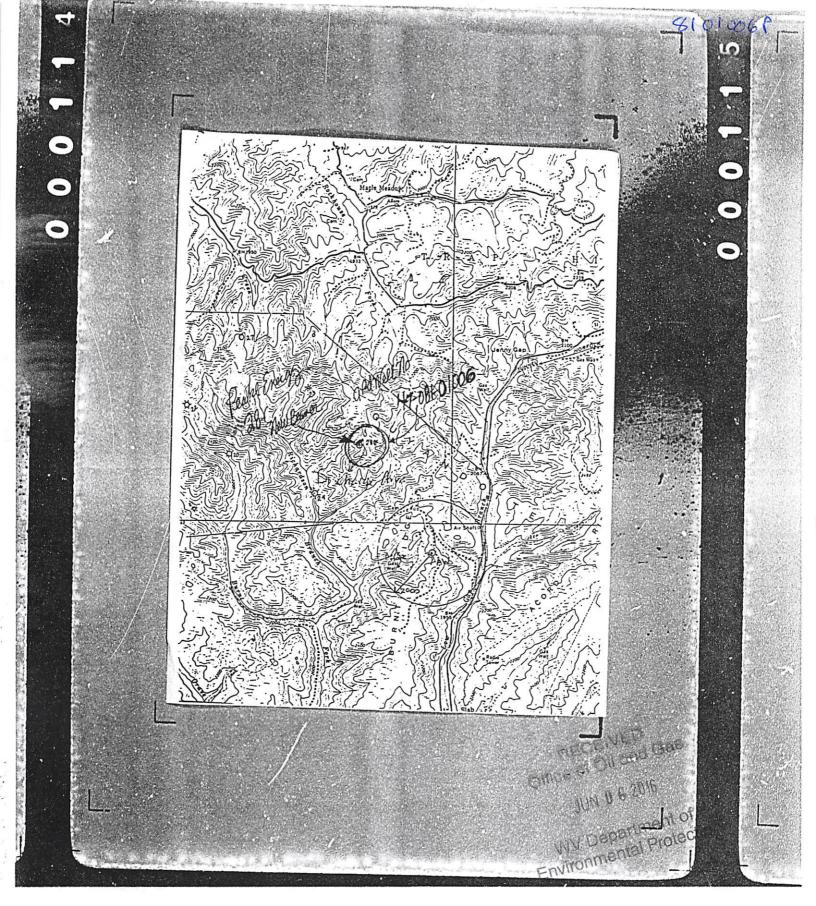
^{*}NOTE: Well was making approx. 26 Mcf/d, natural. Gas at T.D. was too small to measure.

| | LATITUDE 37°45°00 | |
|------------------------------|--|--|
| | out. | |
| | | • |
| | Miles Optobal | 0 |
| | 4 0192 A DEAVER COAU CO. 2180 . 68AL. | .0 |
| | 2 August 100 and 100 a | |
| | distance the second sec | |
| gife Sign on a manage | Contain Time! | |
| Web Procedure | LOCATION REFERENCE | |
| | (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS FILE NO | |
| | ACCURACY // 1/0000 PROVEN SOURCE OF ELEVATION PT. ON AND SELECT TO ENERGY. (SIGNED) REF. T. ON AND SELECT TO ENERGY. (SIGNED) REF. T. ON AND SELECT TO ENERGY. (SIGNED) REF. T. ON AND SELECT TO ENERGY. (SIGNED) | |
| And the second of the second | STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS A LIQUID INJECTION WASTE DISPOSAL WELL TYPE: OIL GAS A LIQUID INJECTION WASTE DISPOSAL STATE COUNTY STATE COUNTY STATE COUNTY | |
| 9-MM | LOCATION: ELEVATION #400 WATER SHED RICHARD ON BRANCH DISTRICT #148 FORK COUNTY RALEIGH COUNTY RALEIGH COUNTY RALEIGH | AEOEIVED |
| Positive Positive | PROPOSED WORK: DRILL X_CONVERT LAILL DEEPERREDRILLFRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN VELUE RESCRIPTORY. | 0 301 |
| HALLS INC. | PLUG AND ABANDON_CLEAN OUT AND REPLUG | JUN 0 6 20 NV Departm. Mic Vironmental |
| 1 | RAVENSWOOD, WY 26164 EN | vironmental |

28 L 100/2006 07/22/2016



W.





081-01006

| WW-4A |
|------------|
| vised 6-07 |

|) | Operator' | s Well Number | |
|---|----------------------|---------------|--|
| , | New Beaver Coal 28-C | | |

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

3) API Well No.: 47 -

| 4) Surface Owner(s) to be served: (a) Name Beaver Coal Co. | 5) (a) Co | oal Operator Name | Beaver Coal |
|---|---|--|---|
| | St., Beckley WV 25801 | Address | 115 1/2 Kanawha St. Beckley WV 25801 |
| (b) Name Address | | (b) Coal Ow Name Address | wner(s) with Declaration |
| (c) Name Address | | Address | |
| Address Gary Address Gary Nimitz, WV | 68 | | ssee with Declaration |
| Telephone Ph. (304) 3 | | dress | |
| (1) The application to Plug and well its and the plugging wor (2) The plat (surveyor's map) shows the reason you received these documents However, you are not required to take a Take notice that under Chapter 22-6 of accompanying documents for a permit Protection, with respect to the well at the respect to the second of the respect to the well at the respect to the second of the respect to the respect to the second of the respect to the respect to the second of the respect to the | Abandon a Well on Form to wing the well location on ents is that you have rights reany action at all. If the West Virginia Code, the to plug and abandon a well with the location described on the agent mailed by registered or cere. | WW-4B, which Form WW-6. garding the applic undersigned well ith the Chief of th attached Application | eived this Form and the following documents: I sets out the parties involved in the work and describes the I sets out the parties involved in the work and describes the I cation which are summarized in the instructions on the reverses side. I operator proposes to file or has filed this Notice and Application and the Office of Oil and Gas, West Virginia Department of Environmental ion 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 |
| | By: Rai Its: S. Address P.C. RAV | BOX 8 | D, WV 26164 REGEIVED Gas |
| Subscribed and sworn before me th | is <u>247</u> 2 day of | Mry | Notary Public |
| My Commission Expires June 11 Oil and Gas Privacy Notice | Jerryh, | herhell | Notary Public OFFICIAL SEAL OF THE COLON NOTARY PUBLIC STATE OF WEST VIRGINIA |
| The Office of Oil and Gas processes you regulatory duties. Your personal information | mation may be disclosed tatutory or regulatory i | l to other Sta requirements | third and phene Minister of our process of the control of the course of |

information, please contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

WW-9 (2/15)

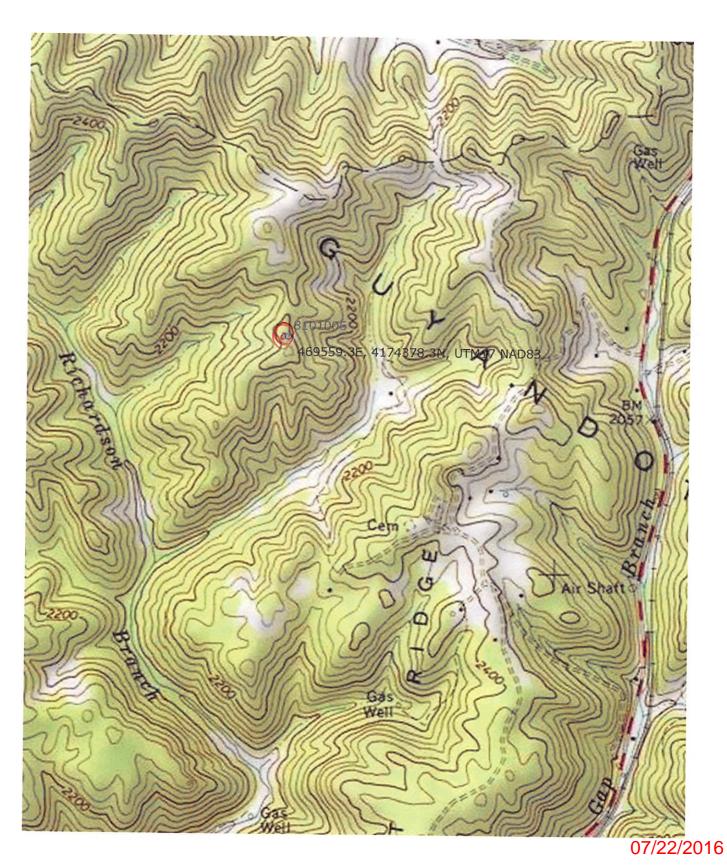
| API Number | 47 | 081 | | 01006 | |
|------------|---------|--------|---------|--------|-----|
| Ope | rator's | Well 1 | No. New | Beaver | 28C |

RT. 1, BOX 101A RIPLEY, WV 25271 My commission expires June 11, 2018

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

| FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN |
|---|
| Operator Name_EXCO Resources (PA), LLC OP Code 307860 |
| Watershed (HUC 10) Richardson Branch Quadrangle Lester |
| Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No |
| Will a pit be used? Yes No X |
| If so, please describe anticipated pit waste: |
| Will a synthetic liner be used in the pit? Yes No If so, what ml.? |
| 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) X Other (Explain Any fluids will be collected in a tank and Hauled |
| Will closed loop system be used? If so, describe: |
| Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. |
| -If oil based, what type? Synthetic, petroleum, etc |
| Additives to be used in drilling medium? |
| Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc |
| -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) |
| -Landfill or offsite name/permit number? |
| Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed. |
| I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT is successful to a submitted on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that a provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applications 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 the application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible obtaining the information, I believe that the information is true, accurate, and complete. I am applicate there are significently penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature Rendall Sheets Company Official Title Guprul Section Subscribed and sworn before me this 24th day of may Environmental Protection Subscribed and sworn before me this 24th day of may Environmental Protection |
| Subscribed and sworn before me this 2414 day of MAY Environments |
| My commission expires Jene 11 2018 OFFICIAL SEAL NOTARY PUBLIC STATE OF WIST VIRIGINIA LEDRY M. TERHAROCK |

| Proposed Revegetation Treat 0.5 | tment: Acres Disturbed | | Prevegetation Pl | 1 6.0 |
|--|-----------------------------|---------------|------------------|--|
| Lime | 2Tons/acre or to corre | ect to pH | | |
| | 10-20-20 | | | |
| Fertilizer amount_ | Fertilizer amount | | | |
| Mulch | | _2 Tons/acre | | |
| | | Seed Mixtures | | |
| Te | Temporary | | Perma | nent |
| Seed Type | lbs/acre | | Seed Type | lbs/acre |
| ENTUCKY FESCUE | 4 | | SAME | |
| LSIKE CLOVER | 5 | · | | |
| NNUAL RYE | 16 | | | |
| orovided) Photocopied section of involv | ved 7.5' topographic sheet. | | | |
| Plan Approved by: | Hung Ker | udz | 1 | |
| Comments: | | • | | |
| | | | | |
| | | | | |
| | * | **** | | |
| | | | REC | Oil and Gas |
| | | | Office of | N 0 6 2016 Department of protection armental Protection |
| Field Reviewed? | , ~ | Date:_ | 5/25/16 MN | Department of Departal Protection |
| Field Reviewed? | Yes (_ |) No | Environ | Meller. |





West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

| WELLLO | CATION FORM. 015 | | | | |
|---|--|--|--|--|--|
| _{API:} 47 081 01006 | WELL NO.: | | | | |
| FARM NAME: Beaver Coa | | | | | |
| RESPONSIBLE PARTY NAME: | EXCO Resources (PA), LLC | | | | |
| COUNTY: Releigh | DISTRICT: Slab Fork | | | | |
| QUADRANGLE: Lester | | | | | |
| SURFACE OWNER: Beaver | Coal Company | | | | |
| ROYALTY OWNER: Beaver | Coal Company | | | | |
| HTM CDS NODTHING, 4175 | 50.7 4174378,3 M | | | | |
| UTM GPS NORTHING: 474366.7 469 559.3 & GPS ELEVATION: 2400 | | | | | |
| preparing a new well location plat for above well. The Office of Oil and Go the following requirements: | of meters REGEIVE Gas | | | | |
| Real-7 | ime Differential | | | | |
| Mapping Grade GPS X: Pos | t Processed Differential al-Time Differential | | | | |
| 1 | s data is correct to the best of my knowledge and required by law and the regulations issued and | | | | |
| Signature | Title Date | | | | |