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west virginia department of environmental protection

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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

## PERMIT MODIFICATION APPROVAL

June 22, 2016

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET  
DENVER, CO 80202

Re: Permit Modification Approval for API Number 9502347, Well #: DEAN UNIT 2H

### Corrected Coordinates and Lengthened Lateral

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith  
Assistant Chief of Permitting  
Office of Oil and Gas

Promoting a healthy environment.

06/24/2016

WW-6B  
(04/15)

API NO. 47- 095 - 02347 MOD  
 OPERATOR WELL NO. Dean Unit 2H  
 Well Pad Name: Weigle East Pad

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: Antero Resources Corporat 494507062 095 - Tyler Ellsworth Shirley 7.5'  
 Operator ID County District Quadrangle

2) Operator's Well Number: Dean Unit 2H Well Pad Name: Weigle East Pad

3) Farm Name/Surface Owner: Edwin C. Weigle Public Road Access: CR 18/14

4) Elevation, current ground: 812' Elevation, proposed post-construction: 812'

5) Well Type (a) Gas  Oil \_\_\_\_\_ Underground Storage \_\_\_\_\_  
 Other \_\_\_\_\_  
 (b) If Gas Shallow  Deep \_\_\_\_\_  
 Horizontal

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 6500' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6500' TVD

9) Formation at Total Vertical Depth: Marcellus Shale

10) Proposed Total Measured Depth: 16,400' MD

11) Proposed Horizontal Leg Length: 9204'

12) Approximate Fresh Water Strata Depths: 9', 194', 366'

13) Method to Determine Fresh Water Depths: Scardina Unit 1H (API# 47-095-02169) on same pad.

14) Approximate Saltwater Depths: 1931', 1136'

15) Approximate Coal Seam Depths: 1380', 1461'

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes \_\_\_\_\_ No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
 Depth: \_\_\_\_\_  
 Seam: \_\_\_\_\_  
 Owner: \_\_\_\_\_

Received  
 Office of Oil & Gas  
 MAY 23 2016

WW-6B  
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18)

**CASING AND TUBING PROGRAM**

<b>TYPE</b>	<u>Size (in)</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling (ft)</u>	<u>INTERVALS: Left in Well (ft)</u>	<u>CEMENT: Fill-up (Cu. Ft.)/CTS</u>
Conductor	20"	New	H-40	94#	60'	60'	CTS, 164 Cu. Ft.
Fresh Water	13-3/8"	New	J-55/H-40	54.5#/48#	440'	440**see #19	CTS, 611 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500'	2500'	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	20#	16,400'	16,400'	4102 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#		7100'	
Liners							

<b>TYPE</b>	<u>Size (in)</u>	<u>Wellbore Diameter (in)</u>	<u>Wall Thickness (in)</u>	<u>Burst Pressure (psi)</u>	<u>Anticipated Max. Internal Pressure (psi)</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>
Conductor	30"	24"	0.438"	1530	50	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	1000	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

**PACKERS**

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

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Office of Oil & Gas  
MAY 23 2016

WW-6B  
(10/14)

API NO. 47- 095 - 02347 MD  
 OPERATOR WELL NO. Dean Unit 2H  
 Well Pad Name: Weigle East Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new horizontal shallow well and complete Marcellus Shale.  
 \*Antero will be air drilling the fresh water string which makes it difficult to determine when freshwater is encountered, therefore we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs  
 Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 22.17 acres

22) Area to be disturbed for well pad only, less access road (acres): 3.22 acres (\*expanded LOD)

23) Describe centralizer placement for each casing string:

Conductor: no centralizers  
 Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.  
 Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.  
 Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement.  
 Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake  
 Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat  
 Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51  
 Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

Received  
 Office of Oil & Gas  
 MAY 23 2016

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
 Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
 Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
 Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

\*Note: Attach additional sheets as needed.

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

(1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;

(2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>Kathy Ann Seago Lease</u> ✓ Kathy Ann Seago as a beneficiary of the Estate of Edwin C. Weigle, deceased	Antero Resources Appalachian Corporation	1/8+	0402/0448
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Richard L. Seago, et ux Lease</u> ✓ Richard L. Seago	Antero Resources Appalachian Corporation	1/8+	0403/0733
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Robert L. Dean Lease</u> ✓ Robert L. Dean	Antero Resources Appalachian Corporation	1/8+	0410/0659
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>James E. Gregg, et ux Lease</u> ✓ James E. Gregg, et ux	Antero Resources Appalachian Corporation	1/8+	0408/0460
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>WVDNR Lease</u> ✓ West Virginia Division of Natural Resources	Antero Resources Corporation	1/8+	0483/0269
<u>Tyler County Fair Association Lease</u> ✓ Tyler County Fair Association, Inc.	Antero Resources Appalachian Corporation	1/8+	0424/0521
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>Kathy A. Keating Lease</u> ✓ Kathy A. Keating	Antero Resources Corporation	1/8+	0438/0438
<u>John H. Crumrine, et al Lease</u> ✓ John H. Crumrine, et al	Drilling Appalachian Corporation	1/8	0257/0521
Drilling Appalachian Corporation	Antero Resources Appalachian Corporation	Assignment	0422/0074
Antero Resources Appalachian Corporation	Antero Resources Corporation	Name Change	Exhibit 1
<u>David M. Smith Lease</u> ✓ David M. Smith	Antero Resources Corporation	1/8+	0505/0763

Received  
Office of Oil & Gas  
MAY 23 2016

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

WW-6A1  
(5/13)

Operator's Well No. Dean Unit 2H

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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Benjamin F. Hill, et ux Lease ✓	Benjamin F. Hill	Antero Resources Corporation	1/8+	0424/0549

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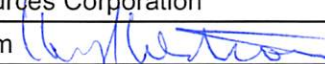
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Received  
Office of Oil & Gas

Well Operator: Antero Resources Corporation  
 By: Kevin Kilstrom  MAY 23 2016  
 Its: Senior VP of Production

FORM WW-6A1  
EXHIBIT 1

Natalie E. Tennant  
Secretary of State  
1900 Kanawha Blvd E  
Bldg 1, Suite 157-K  
Charleston, WV 25305

FILE ONE ORIGINAL  
(We'll return a filed stamped copy to you)

Fee: \$25.00

**APPLICATION FOR AMENDED CERTIFICATE OF AUTHORITY**  
PENNEY BARKER, Manager  
IN THE OFFICE OF SECRETARY OF STATE  
Tel: (304) 558-8000  
Fax: (304) 558-8381  
Website: www.wvsecos.com  
E-mail: business@wvsecos.com  
Office Hours: Monday - Friday  
8:30 a.m. - 5:00 p.m. ET



FILED  
JUN 10 2013

\*\*\* In accordance with the provisions of the West Virginia Code, the undersigned corporation hereby \*\*\*  
applies for an Amended Certificate of Authority and submits the following statement:

1. Name under which the corporation was authorized to transact business in WV: Antero Resources Appalachian Corporation
2. Date Certificate of Authority was issued in West Virginia: 6/26/2008
3. Corporate name has been changed to: Antero Resources Corporation  
(Attach one Certified Copy of Name Change as filed in home state of incorporation.)
4. Name the corporation elects to use in WV: Antero Resources Corporation  
(due to home state name not being available)
5. Other amendments: (attach additional pages if necessary)

6. Name and phone number of contact person. (This is optional, however, if there is a problem with the filing, listing a contact person and phone number may avoid having to return or reject the document.)  
Allyn A. Schopp  
(303) 367-7310  
Contact Name  
Phone Number

7. Signature Information (See below "Important Legal Notice Regarding Signatures")  
Print Name of Signer: Allyn A. Schopp  
Title/Capacity: Authorized Person  
Signature: *[Handwritten Signature]*  
Date: June 10, 2013

**Important Legal Notice Regarding Signatures:** For West Virginia Code §31A-1-129. Penalty for signing false document. Any person who signs a document he or she knows is false in any material respect and knows that the document is to be delivered to the secretary of state for filing is guilty of a misdemeanor and, upon conviction thereof, shall be fined not more than one thousand dollars or confined in the county or regional jail not more than one year, or both.

Received  
Office of Oil & Gas  
MAY 23 2016

LATITUDE 39°30'00"

5,514'

9,912' TO BOTTOM HOLE

LATITUDE 39°30'00"

LONGITUDE 80°50'00"

3,946' TO BOTTOM HOLE

12,278'

LONGITUDE 80°50'00"

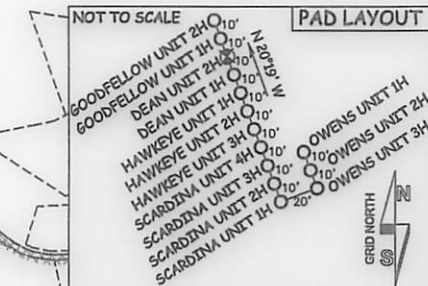
Antero Resources Corporation  
Well No. Dean Unit 2H  
API # 47-095-02347

NOTES:  
WELL 2H TOP HOLE INFORMATION:  
N: 354,822ft E: 1,618,069ft  
LAT: 39°27'58.68" LON: 80°51'10.31"  
BOTTOM HOLE INFORMATION:  
N: 363,216ft E: 1,613,795ft  
LAT: 39°29'21.00" LON: 80°52'06.44"  
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

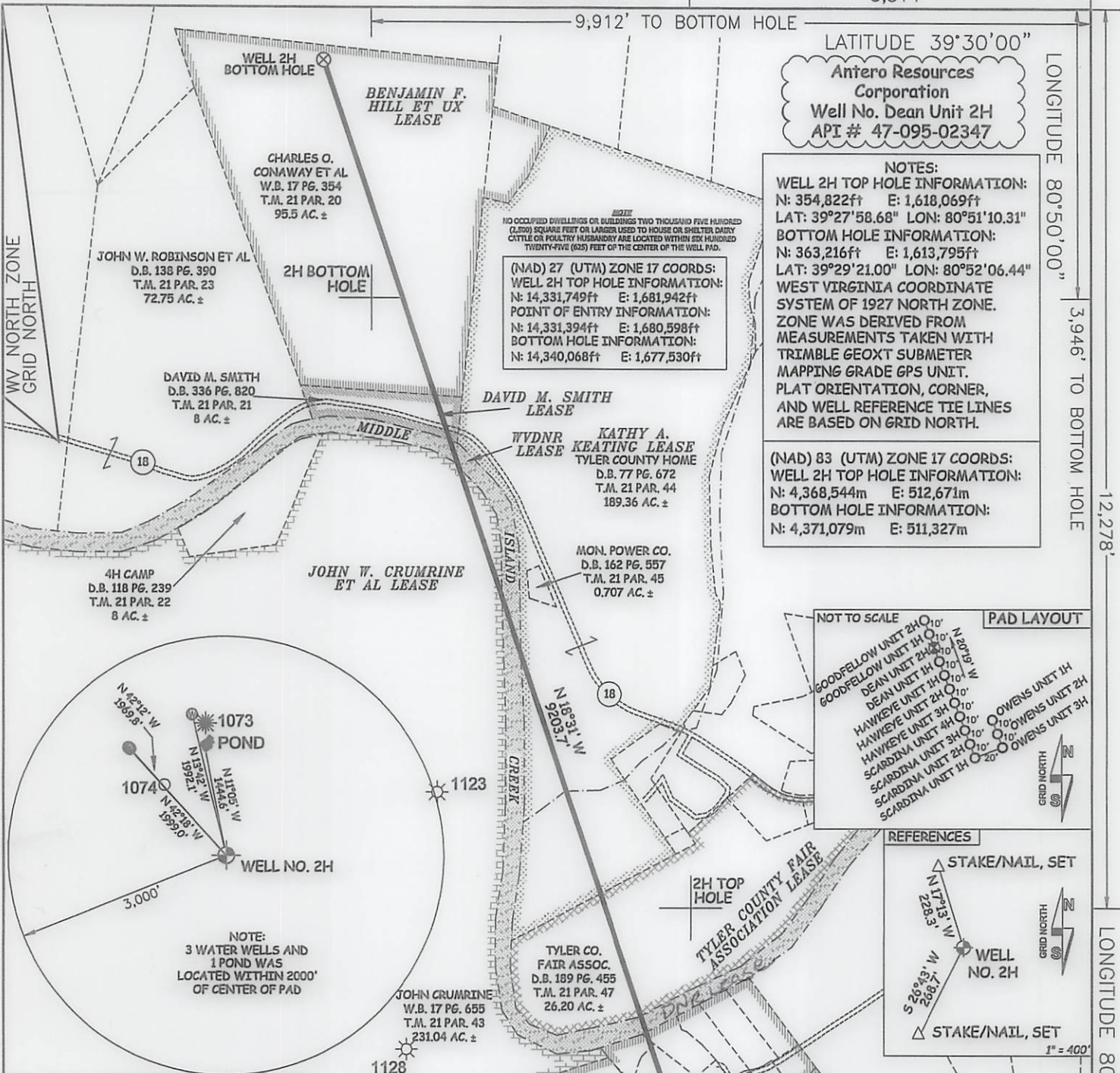
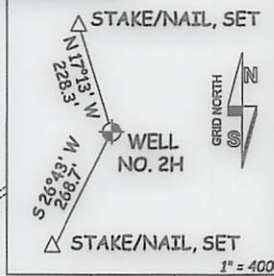
(NAD 83 (UTM) ZONE 17 COORDS:  
WELL 2H TOP HOLE INFORMATION:  
N: 4,368,544m E: 512,671m  
BOTTOM HOLE INFORMATION:  
N: 4,371,079m E: 511,327m

NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POULTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.

(NAD 27 (UTM) ZONE 17 COORDS:  
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BOTTOM HOLE INFORMATION:  
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REFERENCES



47 - 095 - 02347  
STATE COUNTY PERMIT

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



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

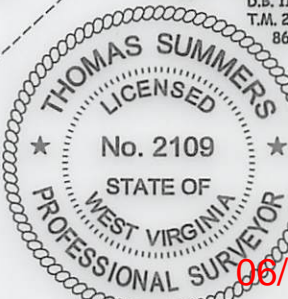
WILLOW LAND SURVEYING PLLC  
220 MASONIC AVE. PENNSBORO WEST VIRGINIA 26415

JOB # 13-040WA  
DRAWING # DEAN2HR  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY SUBMETER  
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS  
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS

LEGEND  
--- Surface Owner Boundary Lines +/-  
--- Interior Surface Tracts +/-  
--- Existing Fence  
--- Found monument, as noted  
THOMAS SUMMERS P.S. 2109  
DATE 05/03/16  
OPERATOR'S WELL# DEAN UNIT #2H

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
LOCATION: ELEVATION 811 ORIGINAL - 812' AS-BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
QUADRANGLE SHIRLEY 7.5' DISTRICT ELLSWORTH COUNTY TYLER  
SURFACE OWNER EDWIN C. WEIGLE ACREAGE 60.19 ACRES +/-

OIL & GAS ROYALTY OWNER KATHY ANN SEAGO; RICHARD L. SEAGO ET UX; ROBERT L. DEAN; LEASE ACREAGE 129.2 AC.±; 74.2 AC.±; 35 AC.±;  
JAMES E. GREGG ET UX; WVDNR TYLER COUNTY FAIR ASSOCIATION; KATHY A. KEATING; JOHN W. CRUMRINE ET AL; DAVID M. SMITH; BENJAMIN F. HILL ET UX 141 AC.±; 34 AC.±; 26.665 AC.±; 190.07 AC.±; 256 AC.±; 8 AC.±; 95.5 AC.±  
PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER X REDRILL \_\_\_ FRACTURE OR STIMULATE X  
PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL  
(SPECIFY) MOD - BHL PLUG & ABANDON CLEAN OUT & REPLUG  
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 16,400' MD  
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313



06/24/2016





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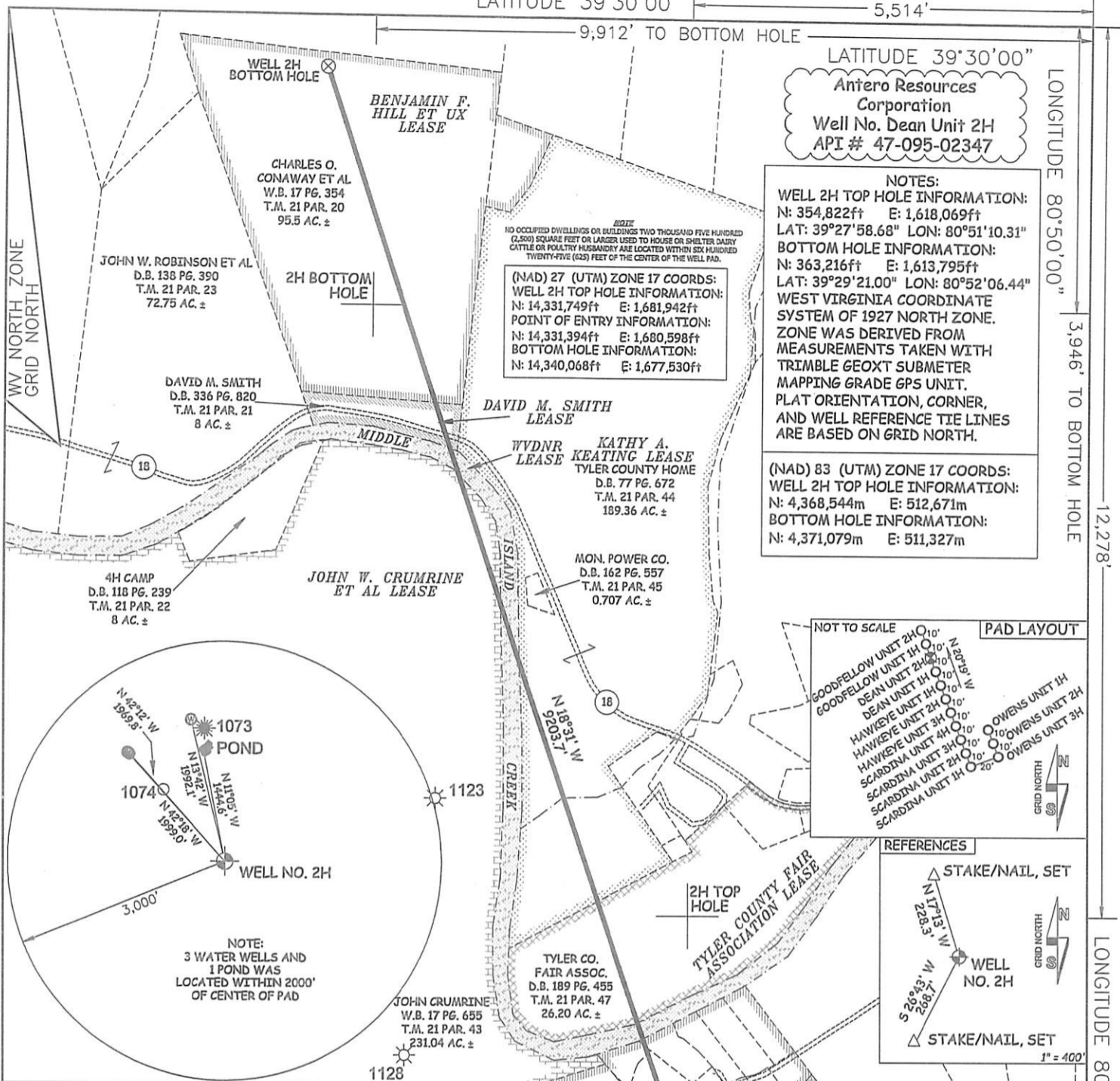
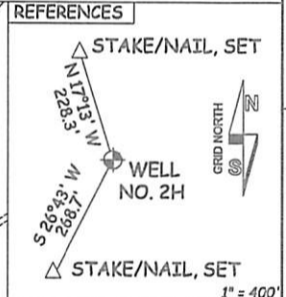
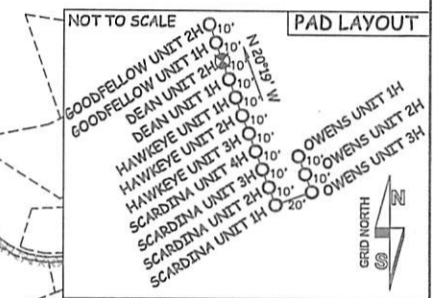
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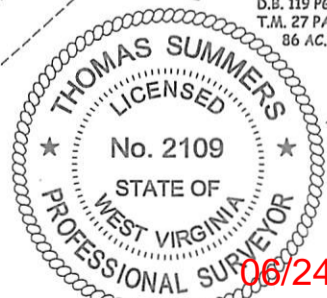
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THOMAS SUMMERS P.S. 2109

DATE 05/03/16

OPERATOR'S WELL# DEAN UNIT #2H



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(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW

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PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL

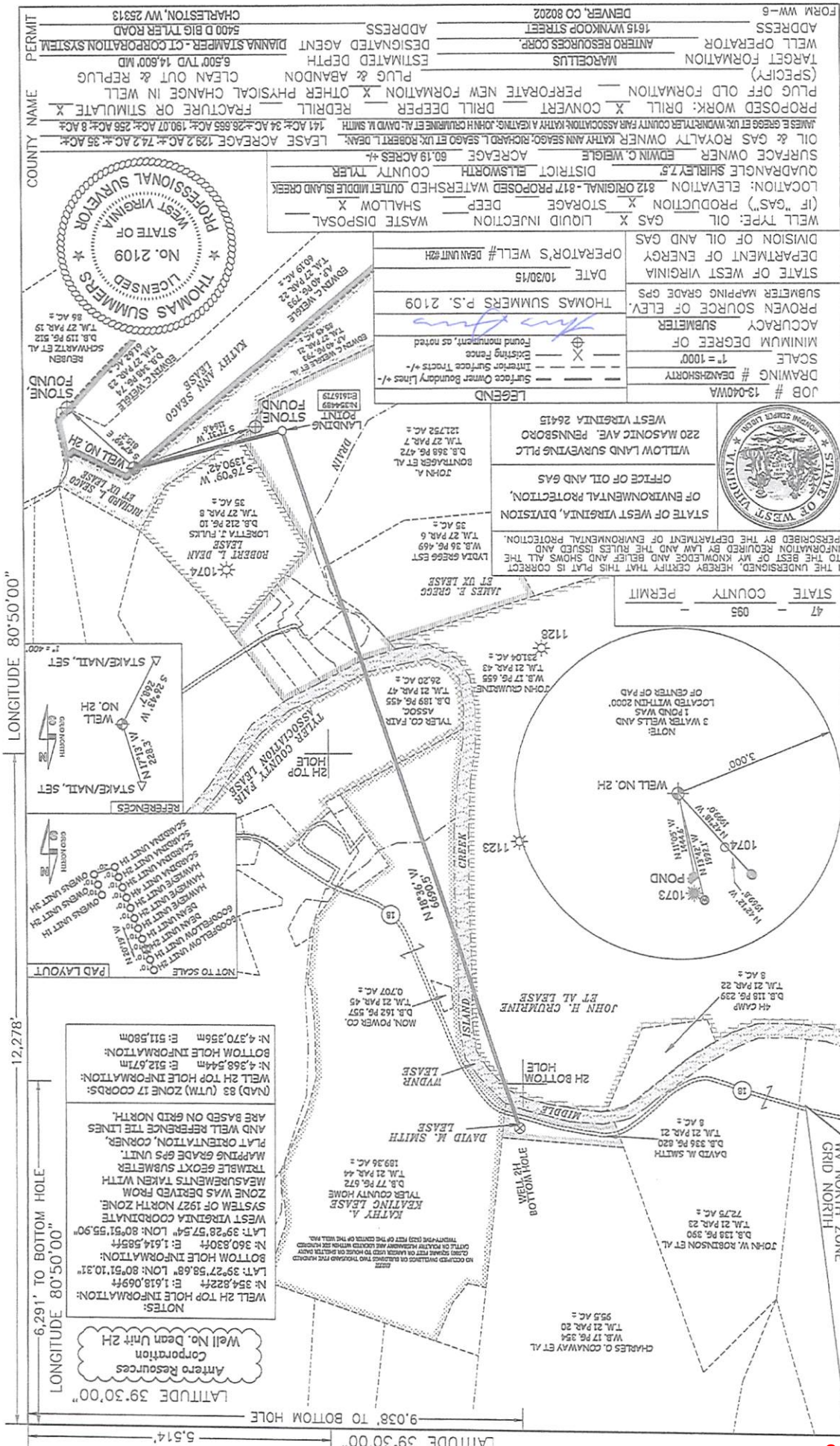
(SPECIFY) MOD - BHL PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,500' TVD 16,400' MD

WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM

ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
DENVER, CO 80202 CHARLESTON, WV 25313

06/24/2016



**WELL TYPE:** OIL  
**GAS X** LIQUID INJECTION  
**WASTE DISPOSAL** \_\_\_\_\_  
**DEEP** \_\_\_\_\_  
**SHALLOW X** \_\_\_\_\_  
**LOCATION:** ELEVATION 812 ORIGINAL - 817 PROPOSED WATERSHED OUTLET MIDDLE ISLAND CREEK  
**QUADRANGLE:** SHIRLEY 7.5  
**DISTRICT:** ELMWORTH  
**COUNTY:** TYLER

**WELL OPERATOR:** ANTERO RESOURCES CORP.  
**DESIGNATED AGENT:** DIANNA STAMPER - CI CORPORATION SYSTEM  
**ADDRESS:** 1615 WYNKOOP STREET  
**DENVER, CO 80202**

**TARGET FORMATION:** MARCELLUS  
**ESTIMATED DEPTH:** 6500 TO 14,500 MD  
**CLEAN OUT & REPLUG** \_\_\_\_\_  
**PLUG & ABANDON** \_\_\_\_\_  
**PERFORATE NEW FORMATION X** \_\_\_\_\_  
**PERFORATE OLD FORMATION** \_\_\_\_\_  
**DRILL DEEPER** \_\_\_\_\_  
**REDRILL** \_\_\_\_\_  
**FRACTURE OR STIMULATE X** \_\_\_\_\_

**LEASING:** LEASE ACRES: 129.2 AC. # 74.2 AC. # 35 AC. # 141 AC. # 34 AC. # 26.665 AC. # 190.07 AC. # 256 AC. # 8 AC. #  
**OWNER:** JAMES E GREEN ET UX WINDYBUSH COUNTY FAIR ASSOCIATION, KATHY A KEATING, JOHN H CRURINE ET AL, DAVID M SMITH  
**ACREAGE:** 60.19 ACRES +/-  
**SURFACE OWNER:** EDWIN G. WEAVER  
**OIL & GAS ROYALTY OWNER:** KATHY ANN SEAGO, RICHARD L SEAGO ET UX, ROBERT L DEAN

**JOB #** 13-040WA  
**DRAWING #** DEANZSHORTHY  
**SCALE:** 1" = 100'  
**MINIMUM DEGREE OF ACCURACY:** SUBMETER  
**PROVEN SOURCE OF ELEVATION:** THOMAS SUMMERS P.S. 2109  
**DATE:** 10/30/15  
**OPERATOR'S WELL #** DEAN UNIT #2H

**STATE OF WEST VIRGINIA**  
**OFFICE OF OIL AND GAS**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION**  
**WILLOW LAND SURVEYING PLLC**  
**220 WASHINGTON AVE PENNSBORO**  
**WEST VIRGINIA 26415**

**STATE** 47  
**COUNTY** 095  
**PERMIT** \_\_\_\_\_

**NOTES:**  
 I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
**STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION,**  
**OFFICE OF OIL AND GAS**  
**WILLOW LAND SURVEYING PLLC**  
**220 WASHINGTON AVE PENNSBORO**  
**WEST VIRGINIA 26415**

**WELL NO. 2H**  
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**DENVER, CO 80202**



## Adkins, Laura L

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**From:** Adkins, Laura L  
**Sent:** Monday, June 13, 2016 10:05 AM  
**To:** 'Mallory Stanton'  
**Cc:** 'Ashlie Steele'; Dani DeVito (ddevito@pasenergy.com)  
**Subject:** Modifications Weigle East Pad 95-02346 and 95-02347

Mallory,

I pulled the Weigle East mods this morning to review and found that two of them have top hole coordinates transposed. Can you please verify the top hole coordinates for the Dean Unit 1H and the Dean Unit 2H.

Thank you,

**Laura L. Adkins**

Environmental Resource Specialist III  
Permit Review  
WVDEP Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304  
304-926-0499 ext. 1495

THE ITEMS REQUESTED IN THIS EMAIL WILL NEED TO BE RECEIVED BY THE OFFICE OF OIL AND GAS WITHIN **20 DAYS** TO AVOID THE PERMIT APPLICATION BEING RETURNED. IF AN OPERATOR WISHES TO RESUBMIT AN APPLICATION THAT HAS BEEN RETURNED, THE OPERATOR IS REQUIRED TO COMPLETE AND SUBMIT NEW FORMS, MYLAR PLAT AND ASSOCIATED FEES.