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

October 19, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-8101298, issued to ARP MOUNTAINEER PRODUCTION, 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: MM-4
Farm Name: CALLOWAY, WILLIAM & ALMA
API Well Number: 47-8101298
Permit Type: Plugging
Date Issued: 10/19/2015

Promoting a healthy environment.

8101 298 P

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.
4. This well is under a consent order and must be plugged under the terms of that agreement.

8K01298P

WW-4B
Rev. 2/01

1) Date September 16th, 2015
2) Operator's Well No. MM-4
3) API Well No. 47- 81 - 01298

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X / Liquid injection ____/ Waste disposal ____/
(If "Gas, Production ____ or Underground storage ____) Deep ____/ Shallow X

5) Location: Elevation 1,807.59' Watershed Marsh Fork
District Trap Hill County Raleigh Quadrangle Eccles

6) Well Operator ARP Mountaineer Production, LLC
Address Park Place Corporate Centre One
1000 Commerce Drive 4th Floor, Pittsburg, PA 15275

7) Designated Agent CT Corporation System
Address 5400 D Big Tyler Road
Charleston, West Virginia 25313

8) Oil and Gas Inspector to be notified
Name Gary Kennedy
Address Box 268
Nimitz WV, 25978

9) Plugging Contractor
Name Universal Well Services
Address 14 Sewer Plant Road
Buckhannon, WV 26201

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

Move in rig up workover rig. Lower and tag bottom, TD 1239'

If fill is encountered, clean to as deep as reasonably achievable below lowermost coal

RIH with 2-3/8" tubing, set off of bottom + or - two feet. Spot Balanced Plug using 50% excess in cement, totaling 55cu.ft of expanding cement

Cement Blend (50/50 PozMix with 10% salt, 2% bentonite)

TOOH w/tubing, WOC for 4hrs minimum

RIH w/tubing, tag cement at or near 839' finish circulating cement to the surface with 80 cu.ft. of expanding cement

Install permanent marker and reclaim location to WVDEP specifications

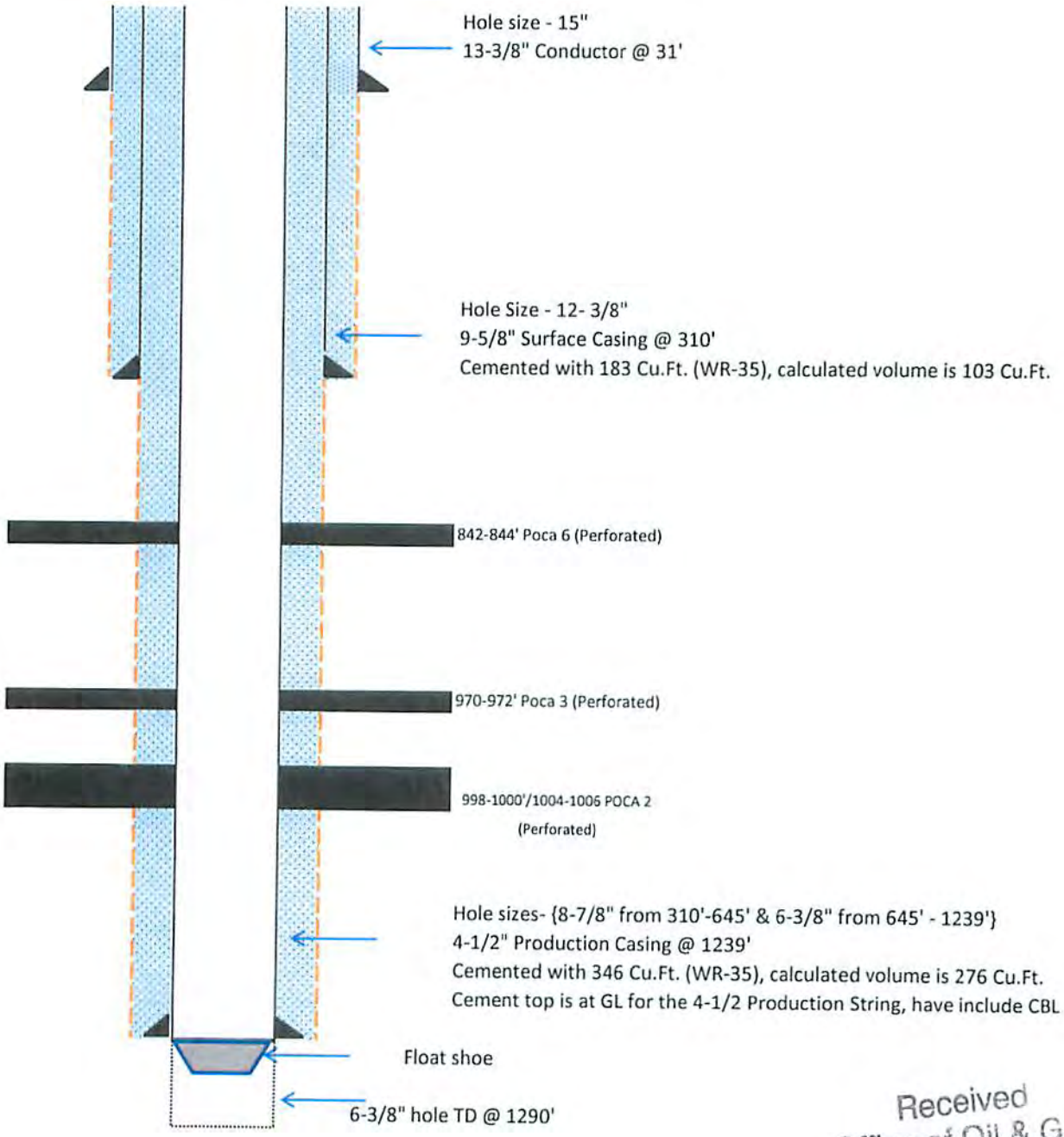
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Received
Office of Oil & Gas
SEP 25 2015

Work order approved by inspector Gary Kennedy Date 9/24/15

8101298P

MM-4
Plug and Abandon Schematic
API # 47-081-01298



Received
Office of Oil & Gas
SEP 25 2015

8101 2982

WR-35
Rev (5-01)

DATE: March 11, 2005
API#: 47-081-01298

Office of Oil & Gas
MAR 18 2005
WV Department of Environmental Protection

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: William and Alma Calloway Operator Well No.: MM-4

LOCATION: Elevation: 1870.59' Quadrangle: Pocket

District: Trap Hill County: Raleigh
Latitude: 0 Feet South of 37 Deg. 46 Min. 40.29 Sec.
Longitude 0 Feet West of 81 Deg. 21 Min. 41.99 Sec.

Company: AMVEST Oil and Gas, Inc.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: One Boar's Head Pointe	16"	21'	21'	N/A
Charlottesville, Virginia 22905	13 3/8"	35'	35'	N/A
Agent: Anthony A. Wilhoit	9 5/8"	356'	356'	183
Inspector: Richard Campbell	4 ½"	1207'	1207'	346
Date Permit Issued: January 30, 2003				
Date Well Work Commenced: 2/14/2003				
Date Well Work Completed: 4/19/2003				
Verbal Plugging:				
Date Permission granted on:				
Rotary x Cable Rig Horn #76				
Total Depth (feet): 1280				
Fresh Water Depth (ft.): 60' and 118'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 408-410, 664-670, 843-845 971-972, 998-1006				

OPEN FLOW DATA

Producing formation Pocahontas #2 Seam Pay zone depth (ft) 998-1006
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 280 psig (surface pressure) after 24 Hours
Second producing formation Pocahontas #3 Seam Pay zone depth (ft) 971-972
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 280 psig (surface pressure) after 24 Hours
Third producing formation Pocahontas #6 Seam Pay zone depth (ft) 843-845
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 280 psig (surface pressure) after 24 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:
By: John E. Sinclair VP Exploration
Date: 3/8/05

Received
Office of Oil & Gas
SEP 25 2015

8/01 298P

Well: MM-4
Permit Number: 47-081-01298C
District: Trap Hill
County: Raleigh

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

Date: 4/8/2003

MIRU HES and Key Energy Services to conduct 3-stage completion. GR/CCL/CBL ran 02/21/03.

1st Stage – Poca#1A, 2B(1004.3-1005.5, 997.8-999.6')

MIRU HES to stimulate Poca #2A, 2B intervals (1004.5-1006(7 shots) and 998-1000(13 shots. Tested lines to 4000 psi. Open frac valve and begin pumping 250 gal FE Acid and TW for breakdown. Formation broke 2301 psi. ISIP 1323 psi. BHTP 2323 psi. FG 2.33 psi/ft. N_2 volume factor 678+/- scf/bbl. Treated intervals with 70Q foam frac per pump schedule. Flush with 100Q N_2. ISIP 1323 psi, 5 min SIP 1111 psi. ATP2400 psi. ATR 20 bpm down hole. Proppant concentrations 0.25 to 2.5 ppg down hole. RD HES.

Materials used: 149 sks 16/30 sand; 170,000 scf N_2;

MIRU HES and Key Energy Services to conduct 3-stage completion. GR/CCL/CBL ran 02/21/03.

2nd Stage – Poca #3 (970.7-972.1)

RU Key Energy and perforate Poca #3 interval under pressure using 3 1/8" HSC 970.7' – 972.1' (12 holes). All shots fired. RIH and set "Alpha" plug at 985.0'.RD Key. RU HES. Pump 50 gal FE acid ahead of frac ball. Drop ball and pump 200 additional gal acid for break down. Break formation down with 10 bbls TW at 2450 psi. ISIP 1234 psi. BHTP 1500 psi. N_2 VF 641 scf/bbl. Treated with energized water frac per pump schedule. Flushed with 100Q foam. 5 min SIP 1095 psi. 10 min SIP 1034 psi. ATP 2500 psi. ATR 44 bpm down hole. Proppant concentrations 0.25 2. 5 ppg down hole. RD HES Services.

Materials used: 53 sks 16/30 sand; 87,000 scf N_2,

3rd Stage – Poca # (841.9'– 1844.2' (18 holes).)

RU Key Energy and perforate Poca #6 interval under pressure using 3 1/8" HSC 841.9'– 1844.2' (18 holes).. All shots fired. RI hole and set plug at 900.0' RD Key. RU HES Services. Pump 50 gal FE acid ahead of frac ball. Drop ball and pump 200 additional gal acid and 8 bbl TW for break down. Break formation down at 2818 psi. ISIP 2340 psi. BHTP 2500 psi.. N_2 VF 603 scf/bbl. 5 min SIP 2101 psi. 10 min SIP 1976 psi. ATP 2300 psi. ATR 84.5 bpm downhole. RD HES.

Materials used: 164 sks 16/30 sand; 135,000 scf N_2

Formation	Top	Bottom
Clay	0	31
Sand and Shale	31	200
Sand	200	340
Shale	340	408
Coal	408	410
Sand	410	664
Coal	664	670
Shale	670	760
Sand	760	843
Coal	843	845
Sand and Shale	845	971
Coal	971	972
Shale	972	998
Coal	998	1006
Sand and Shale	1006	1063
Red Rock	1063	TD 1280

Received
Office of Oil & Gas
SEP 25 2015

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8101298 P

8/01298 P

WW-4A
Revised 6-07

1) Date: September 16, 2015
2) Operator's Well Number
MM 4

3) API Well No.: 47 - 81 - 01298

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

4) Surface Owner(s) to be served:
(a) Name: Cheryl E Bailey ✓
Address: Po Box 149 Fairdale WV 25839

(b) Name: Alma Calloway ✓
Address: Rockhouse Fork Rd. PO Box 40
Glen Daniel WV 258440040

(c) Name: Fairdale Freewill Baptist Church ✓
Address: PO Box 367 Fairdale WV 25839

5) (a) Coal Operator
Name: No Operator
Address:

(b) Coal Owner(s) with Declaration ✓
Name: Maple Meadows Mining Company
Address: 999 Corporate Blvd, Linthicum Heights, MD 21091

Name:
Address:

(c) Coal Lessee with Declaration ✓
Name: Maple Meadow Mining
Address: Company 999 Corporate Blvd, Linthicum Heights, MD 21091

6) Inspector: Garry Kennedy
Address: PO Box 268
Ninilz WV 25978
Telephone: 304-382-8402

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

(1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
(2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator: ARP MOUNTAINEER PRODUCTION, LLC
By: John W. Crook
Its: VP, Environmental Health & Safety
Address: Atlas Resource Partners, LP Park Place Corporate Center One
1000 Commerce Drive 4th Floor Pittsburgh, PA 15275
Telephone: 412-200-7575

Subscribed and sworn before me this 21 day of September 2015
Lauren A Skiba Notary Public
My Commission Expires October 2, 2011

Oil and Gas Privacy Notice

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

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Lauren A. Skiba, Notary Public
Findlay Twp., Allegheny County
My Commission Expires Oct. 2, 2011
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Received
Office of Oil & Gas
SEP 25 2015

8101298P

WW-9
(2/15)

API Number 47 - 81 - 01298
Operator's Well No. MM-4

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name ARP Mountaineer Production, LLC OP Code

Watershed (HUC 10) Marsh Fork Quadrangle Eccles

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 ☑

No pit will be used GPW

If so, please describe anticipated pit waste: Water and Cement to be collected into a skidded 80bbl open top tank

Will a synthetic liner be used in the pit? Yes ☐ No ☑ If so, what mil.?

Proposed Disposal Method For Treated Pit Wastes: GPW

All pits must be lined with a minimum of 20 mil thickness synthetic liner.

- ■ Land Application
- ____ Underground Injection (UIC Permit Number ____)
- ____ Reuse (at API Number ____)
- ____ Off Site Disposal (Supply form WW-9 for disposal location)
- ____ Other (Explain ____

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 issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature

Company Official (Typed Name) John W Crook

Company Official Title VP EHS

Subscribed and sworn before me this 21 day of September, 2015

Lauren A Skiba Notary Public

My commission expires October 2, 2017

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Lauren A. Skiba, Notary Public
Findlay Twp., Allegheny County
My Commission Expires Oct. 2, 2017
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

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SEP 25 2015

8/01298P

Form WW-9

Operator's Well No. MM-4

ARP Mountaineer Production, LLC

Proposed Revegetation Treatment: Acres Disturbed 0.5 Prevegetation pH 5-6.5

Lime 2 Tons/acre or to correct to pH 6

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch Hay/Straw Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Tall Fescue or Orchard Grass	40		
Annual Rye Grass	5		

Attach:
Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Greg Kennedy

Comments:

Title: Inspector Date: 9/24/15

Field Reviewed? ( ) Yes ( ) No

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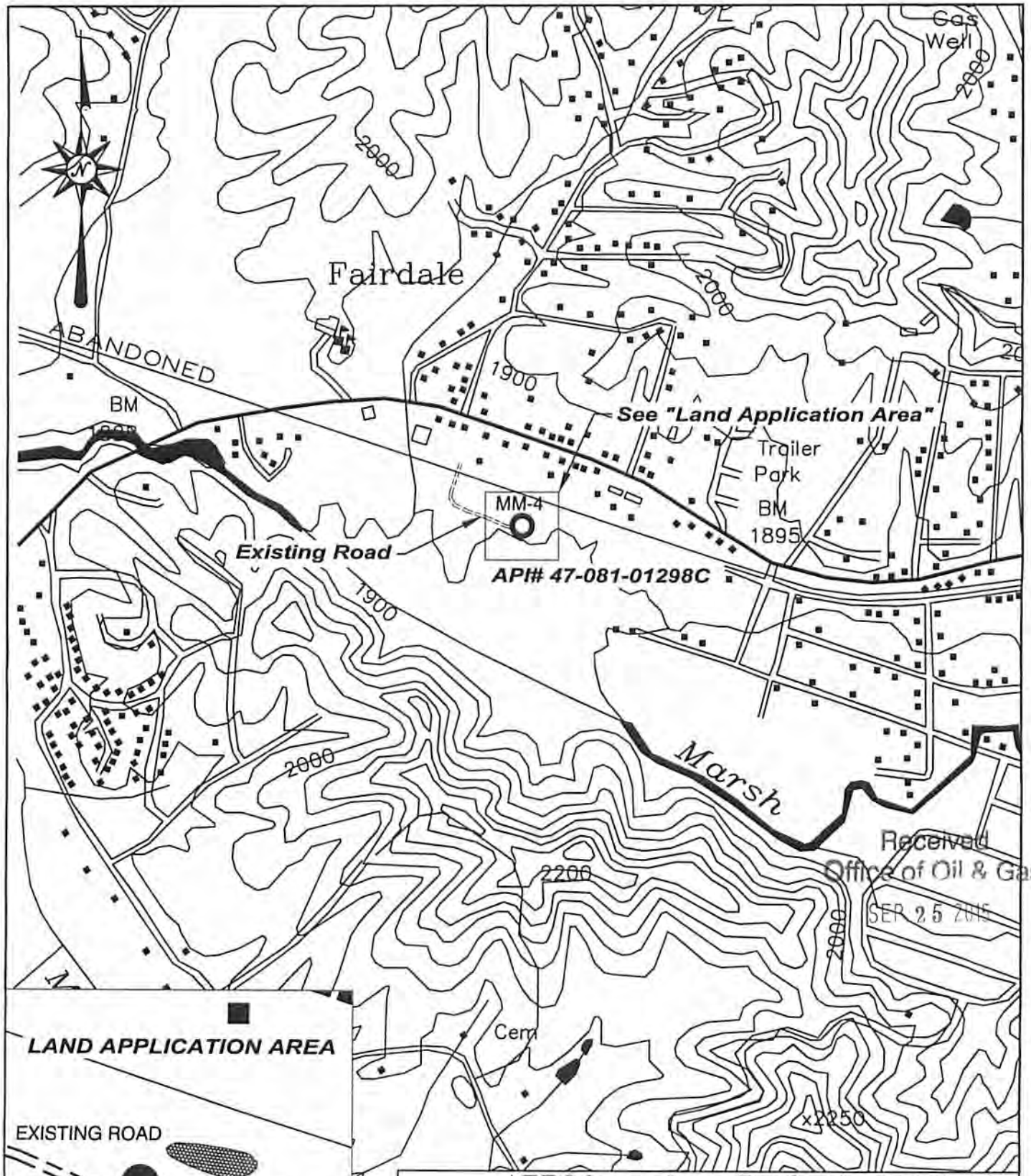
Office of Oil & Gas
SEP 25 2015

8101298P



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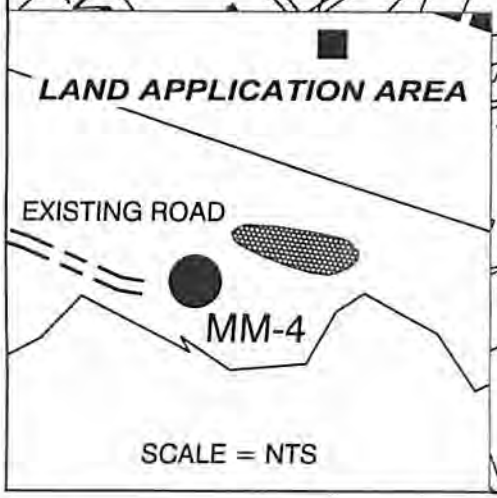
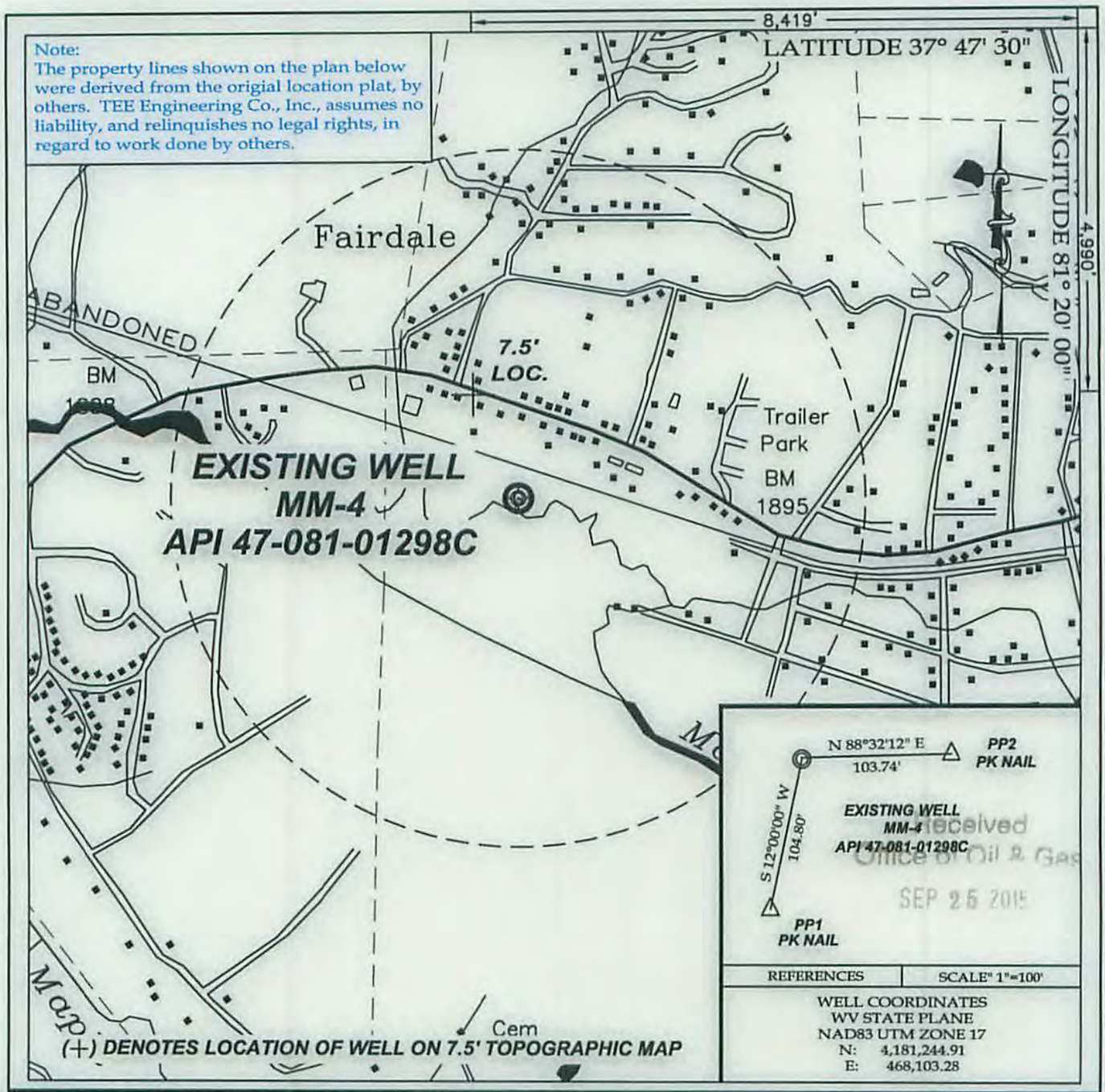


ARP Mountaineer Production, LLC
PARK PLACE CORPORATE CENTER ONE
1000 COMMERCE DRIVE 4th FLOOR, PITTSBURGH, PA 15275

SITE PLAN MAP	WELL NO. MM-4 API #47-081-1298C
DATE: 9/9/15	TEE Engineering Company, Inc.
SCALE: 1" = 1000'	P.O. BOX 219, STANVILLE, KY. 41659 PHONE:(606)478-9024 320 CUTTERS HILL COURT, LEXINGTON, KY. 40509 PHONE:(859)263-5350



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SEP 25 2015

TEE Engineering Company, Inc.
P.O. BOX 219, STANVILLE, KY. 41659 PHONE:(606)478-9024
320 CUTTERS HILL COURT, LEXINGTON, KY. 40509 PHONE:(859)263-5350

ARP Mountaineer Production, LLC
Well No. MM-4

FILE NO. 1883-00
DRAWING NO. ARP MM-4 PLUGGING PLAT
SCALE: 1" = 1,000'
MIN. DEGREE OF ACCURACY 1 : 2,500
PROVEN SOURCE OF ELEVATION
GPS STATION TEC-1 (ELEV. 2406.60)

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNATURE)

R.P.E. _____ R.P.S. 1008

DON F. BLACKBURN
LICENSED
No. 1008
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

(SEAL)

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

DATE SEPTEMBER 9, 2015
OPERATOR'S WELL NO. MM-4
API WELL NO. 47 (STATE) - 081 (COUNTY) - 01298C (PERMIT)

WELL TYPE: OIL ____ GAS X CBM ____ LIQUID INJECTION ____ WASTE DISPOSAL ____
(IF "GAS") PRODUCTION ____ STORAGE ____ DEEP ____ SHALLOW ____

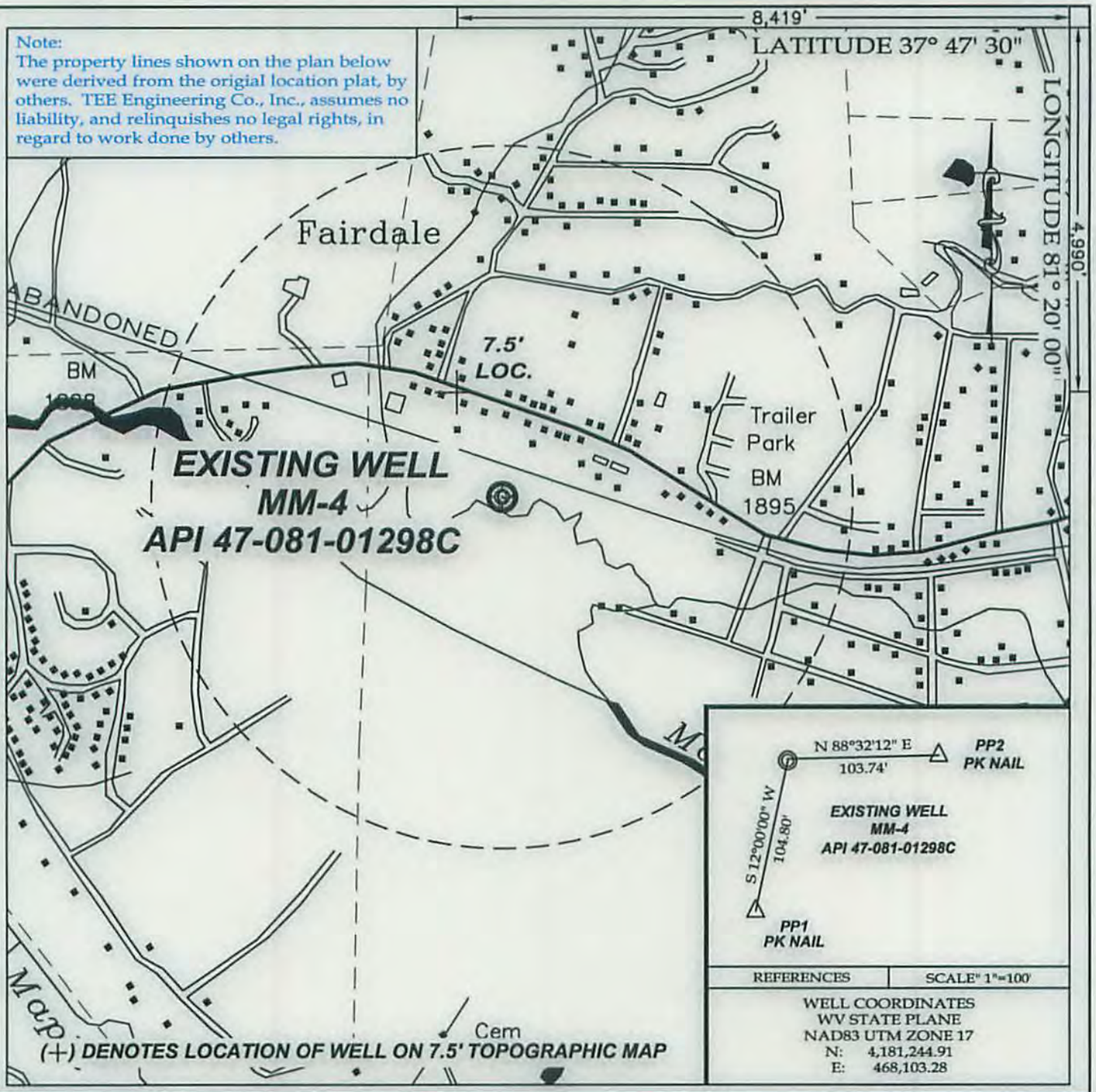
LOCATION: ELEVATION 1,888.67' NORTHING 4181244.91 EASTING 468103.28 ZONE 17 NAD83 UTM
DISTRICT TRAP HILL WATER SHED MARSH FORK
QUADRANGLE ECCLES COUNTY RALEIGH

SURFACE OWNER WILLIAM & ALMA CALLOWAY ACREAGE 40.05
CBM ROYALTY OWNER ROBERT C. CROUCH et al LEASE ACREAGE 280.483
LEASE NO. ____

PROPOSED WORK: DRILL ____ CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE ____ PLUG OFF OLD FORMATION ____ PEFORATE NEW FORMATION ____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ____

PLUG AND ABANDON X CLEAN OUT AND REPLUG ____

TARGET FORMATION POCAHONTAS - 2 ESTIMATED DEPTH 1,280'
WELL OPERATOR ARP MOUNTAINEER PRODUCTION, LLC DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS PARK PLACE CORPORATE CENTER ONE ADDRESS 5400 D BIG TYLER ROAD
1000 COMMERCE DRIVE 4th FLOOR, PITTSBURGH, PA 15275 CHARLESTON, WV 25313



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ARP Mountaineer Production, LLC
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DON F. BLACKBURN
LICENSED
No. 1008
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

(SEAL)

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

DATE SEPTEMBER 9, 2015
OPERATOR'S WELL NO. MM-4
API WELL NO. 47 – 081 – 01298C P
STATE COUNTY PERMIT

WELL TYPE: OIL ____ GAS X CBM ____ LIQUID INJECTION ____ WASTE DISPOSAL ____
(IF "GAS") PRODUCTION ____ STORAGE ____ DEEP ____ SHALLOW ____
LOCATION: ELEVATION 1,888.67' NORTHING 4181244.91 EASTING 468103.28 ZONE 17 NAD83 UTM
DISTRICT TRAP HILL WATER SHED MARSH FORK
QUADRANGLE ECCLES COUNTY RALEIGH
SURFACE OWNER WILLIAM & ALMA CALLOWAY ACREAGE 40.05
CBM ROYALTY OWNER ROBERT C. CROUCH et al LEASE ACREAGE 280.483
LEASE NO. ____

PROPOSED WORK: DRILL ____ CONVERT ____ DRILL DEEPER ____ REDRILL ____ FRACTURE OR STIMULATE ____ PLUG OFF OLD FORMATION ____ PEFORATE NEW FORMATION ____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) ____

PLUG AND ABANDON X CLEAN OUT AND REPLUG ____
TARGET FORMATION POCAHONTAS - 2 ESTIMATED DEPTH 1,280'
WELL OPERATOR ARP MOUNTAINEER PRODUCTION, LLC DESIGNATED AGENT CT CORPORATION SYSTEM
ADDRESS PARK PLACE CORPORATE CENTER ONE ADDRESS 5400 D BIG TYLER ROAD
1000 COMMERCE DRIVE 4th FLOOR, PITTSBURGH, PA 15275 CHARLESTON, WV 25313