



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

November 06, 2013

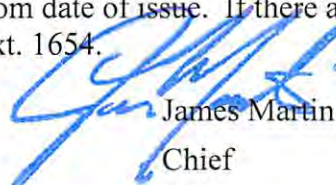
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-501149, issued to CABOT OIL & GAS CORPORATION, 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 penalties 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: (1-207) KESSINGER & MEYERS 1
Farm Name: FANKHOUSER, JAMES

API Well Number: 47-501149

Permit Type: Plugging

Date Issued: 11/06/2013

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

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.

- 1) Date August 8, , 2013
- 2) Operator's
Well No. Kessinger & Meyers #1
- 3) API Well No. 47-005 -01149

**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 X or Underground storage ___) Deep ___/ Shallow X

5) Location: Elevation 783.68' Watershed Spruce Fork of Little Coal River
District Washington County Boone Quadrangle Madison

6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Brian D. Hall
Address Five Penn Center West, Ste. 401 Address 6804 Lick Creek Road
Pittsburgh, PA 15276 Danville, WV 25053

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Ross Eller Name Viking Well Services
Address P.O. Box 1228 121 Brittonville Address 8113 Sissonville Drive
Buckley Chapmanville, WV 25508 25801 Sissonville, WV 25320
304-932-6844

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

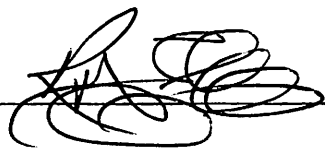
See Attached

RECEIVED
Office of Oil and Gas

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

SEP 25 2013

Work order approved by inspector



WV Department of
Environmental Protection
9/20/13

501149P

WW-4B
Rev. 2/01

1) Date August 8, _____, 2013
2) Operator's
Well No. Kessinger & Meyers #1
3) API Well No. 47-005 - 01149

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 X or Underground storage ____) Deep ____ / Shallow X
- 5) Location: Elevation 783.68' Watershed Spruce Fork of Little Coal River
District Washington County Boone Quadrangle Madison
- 6) Well Operator Cabot Oil & Gas Corporation 7) Designated Agent Brian D. Hall
Address Five Penn Center West, Ste. 401 Address 6804 Lick Creek Road
Pittsburgh, PA 15276 Danville, WV 25053
- 8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Barry Stollings Name Viking Well Services
Address P.O. Box 1228 Address 8113 Sissonville Drive
Chapmanville, WV 25508 Sissonville, WV 25320

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

See Attached

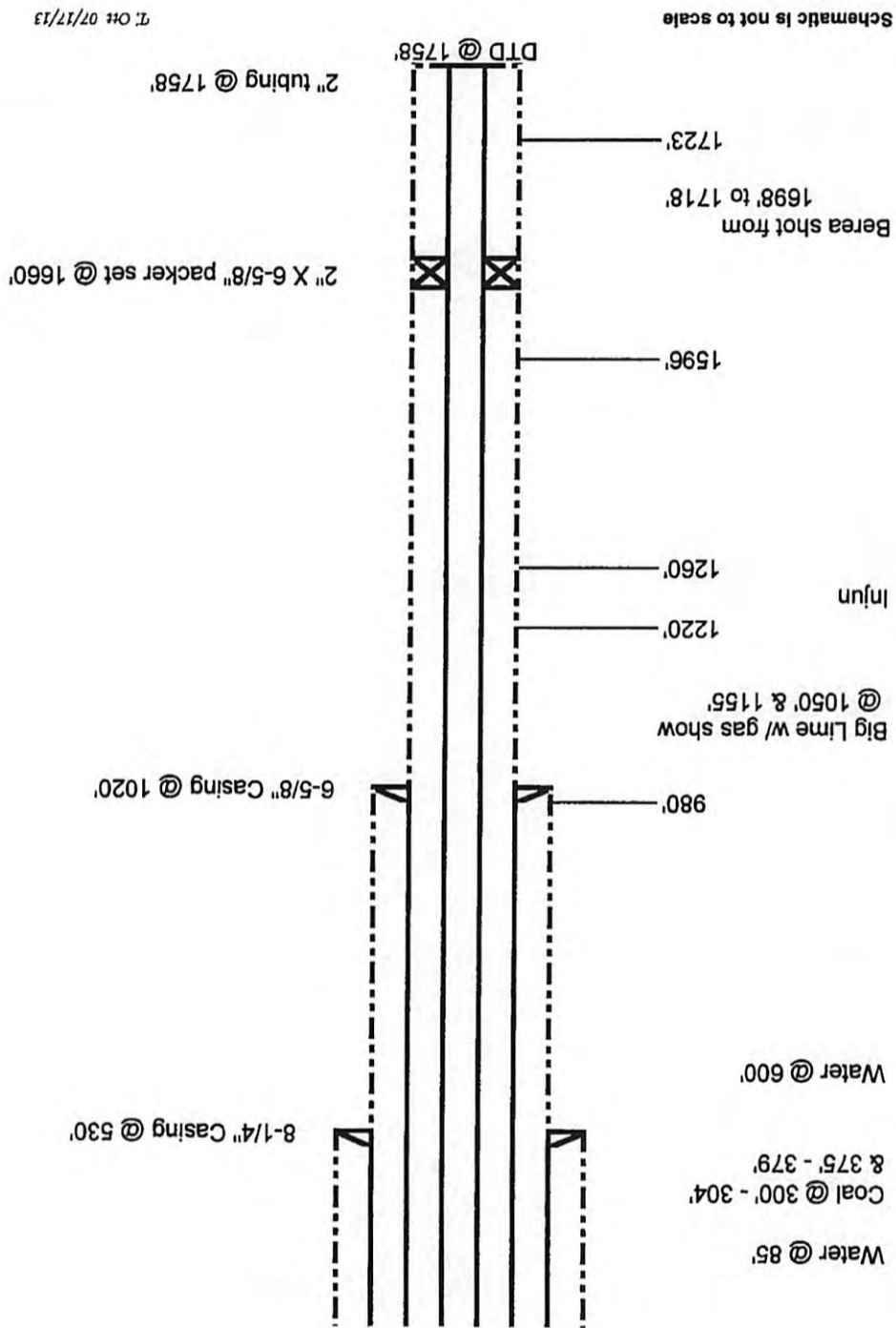
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector _____ Date _____

S01149A

ELC 783

Kessinger & Myers #1
API 47-005-01149
CURRENT CONFIGURATION



501149 P

Kessinger & Myers #1 API # 47 - 005 - 01149 PLUGGING PROCEDURE

Current Configuration

DTD @ 1758'
8-1/4" casing @ 530'
6-5/8" casing @ 1020'
2" tubing @ 1758' with anchor packer set @ 1660'
Water @ 85' & 600'
Coal @ 300' - 304' & 375' - 379'
Berea shot from 1698' to 1718'
Injun @ 1220' - 1260'
Big Lime @ 980' - 1220' with gas shows @ 1050' & 1155'

PROCEDURE

1. Contact Danville Office a minimum of 48 hours prior to starting work.
2. Contact State Inspector a minimum of 24 hours prior to starting work.
3. MIRU service rig and blow down well.
4. Lay 2" line from wellhead to pit/tank and stake down securely.
5. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
6. Unpack wellhead.
7. Pull 2" tubing.
8. If unable to pull tubing, run freepoint, cut above freepoint, and POOH.
9. TIH with 2-3/8" work string to TD.
10. MIRU Cement Company and pump 50 bbls 6% Gel.
11. ~~Pump 40 sks of Class A cement for plug 1 from 1758' to 1550'.~~
12. Displace w/ 6 bbls of 6% Gel.
13. TOOH with work string.
14. Pull 6-5/8" and 8-1/4" casing strings.
15. TIH with work string to 1200' and pump 10 bbls 6% Gel followed by 50 sks of Class A cement for plug 2 from 1200' to 950'. ✓
16. Displace w/ 3 1/2 bbls of 6% Gel.
17. Pull work string up to 580' and pump 150 sks of Class A cement for plug 3 from 580' to 250'. ✓
18. Displace w/ 1 bbl of 6% Gel.
19. ~~Pull work string up to 65' and pump 30 sks of Class A cement for plug 4 from 65' to surface.~~
20. TOOH with work string and lay down.
21. RDMO Cementing Company.
22. Place monument as required by law on top of well bore.
23. Reclaim well site.

11) Plug 1 needs to be from 1675' - 1475' (20' above shot hole)
Plug 1 → 40 sks of Class A cement.

★ 19) Pull work string to 100 ft and set Class A cement plug to surface

★ Minimum cement plug is 100'.

5 01149 P

005-1149

THE OWENS BOTTLE COMPANY

Serial Well No. 207 Lease No. 178-280 Elevation

RECORD OF WELL No. 1 on the

Conductor, Casing and Tubing

GAS WELL

Konninger & Myers

Tract of 45 & 4.95 Acres

in Washington District

Boone County, State of W. Va.

Rig Commenced

Rig Completed

Drilling Commenced

Drilling Completed

Drilling to cost

Contractor is:

Address:

Drillers' Names

G. M. Roe

Well Abandoned and plugged

Conductor 10"

Casing 10"

" 8 1/4"

" 6 3/4"

" 5 3/8"

Tubing 3"

" 2"

Contractor is: E. R. Cameron

Address: Charleston, W. Va.

Drillers' Names: John Sunderman

G. M. Roe

Well Abandoned and plugged

SIZE

NO. OF JOINTS

USED IN DRILLING

LEFT IN WELL

INITIAL OPEN FLOW

Berens 865,000

Line 275,000 99 cubic feet

CLOSED IN PRESSURE

Tubing Casing

Berens 50

Line 5 Pounds

1 Min. 55 10 Pounds

3 Min. 75 20 Pounds

4 Min. 95 30 Pounds

5 Min. 115 50 Pounds

10 Min. 190 40 Pounds

24 Hours 485 45 Pounds

Packer 6 5/8 x 2

Set 1660

Cave indicator 1695

Cave set 1722

Shot 5-15 19 25, with 60 qts.

Top of shot 1698

Bottom of shot 1718

OIL WELL

INITIAL PRODUCTION

Oil flowed barrels

Oil pumped barrels

DRILLER'S RECORD

| FORMATION | Top | Bottom | Thickness | REMARKS |
|----------------|------|--------|-----------|---------------------------|
| Soil | 0 | 4 | 4 | |
| Sand | 4 | 60 | 56 | |
| Slate | 60 | 80 | 20 | |
| Sand | 80 | 155 | 75 | Hole full water at 85 ft. |
| Slate | 155 | 160 | 5 | |
| Sand | 160 | 180 | 20 | |
| Slate | 180 | 200 | 20 | |
| Sand | 200 | 300 | 100 | |
| Coal | 300 | 304 | 4 | |
| Slate | 304 | 320 | 16 | |
| Sand | 320 | 375 | 55 | |
| Coal | 375 | 379 | 4 | |
| Slate | 379 | 425 | 46 | |
| Half Sand | 425 | 450 | 25 | |
| Red Rock | 450 | 465 | 15 | Hole full water 600 ft. |
| Black Lime | 465 | 480 | 15 | |
| Slate | 480 | 485 | 5 | |
| Lime | 485 | 720 | 235 | |
| Slate | 720 | 730 | 10 | |
| Lime | 730 | 790 | 60 | |
| Red Rock | 790 | 820 | 30 | |
| Lime | 820 | 850 | 30 | |
| Pencil Cave | 850 | 855 | 5 | |
| Maxton Sand | 855 | 890 | 35 | |
| Slate | 890 | 935 | 45 | |
| Little Lime | 935 | 975 | 40 | |
| Pencil Cave | 975 | 980 | 5 | |
| Big Lime | 980 | 1220 | 240 | Gas at 1050 - 838,000 |
| Big Injun | 1220 | 1260 | 40 | Gas at 1155 - 340,000 |
| Black Lime | 1260 | 1400 | 140 | Test before shot 725,000 |
| Slate & Shells | 1400 | 1650 | 250 | " after " 860,000 |
| Lime Shells | 1650 | 1680 | 30 | |
| Black Shale | 1680 | 1698 | 18 | |
| Berens Sand | 1698 | 1723 | 25 | |
| Lime | 1723 | 1748 | 25 | |
| Total depth | | | 1748 | |

RECEIVED

NOV - 1 1977

OIL & GAS DIVISION
DEPT. OF MINES

WW-4A
Revised 6-07

1) Date: August 8, 2013
2) Operator's Well Number
Kessinger & Meyers #1

3) API Well No.: 47 - 005 - 01149

**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: | 5) (a) Coal Operator |
| (a) Name <u>SEE ATTACHED SHEET</u> | Name <u>N/A</u> |
| Address _____ | Address _____ |
| (b) Name _____ | (b) Coal Owner(s) with Declaration |
| Address _____ | Name <u>James A. Fankhauser</u> |
| (c) Name _____ | Address <u>205 Handley Circle</u> |
| Address _____ | <u>Danville, WV 25053</u> |
| 6) Inspector <u>Barry Stollings</u> | (c) Coal Lessee with Declaration |
| Address <u>P.O. Box 1228</u> | Name <u>N/A</u> |
| <u>Chapmanville, WV 25508</u> | Address _____ |
| Telephone <u>(304) 552-4194</u> | _____ |

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.

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Constance C. Carden, Notary Public
McDonald Boro, Washington County
My Commission Expires Nov. 16, 2013
Member, Pennsylvania Association of Notaries

Well Operator Cabot Oil & Gas Corporation
By: Kenneth L. Marcum
Its: Regulatory Supervisor
Address Five Penn Center West, Suite 401
Pittsburgh, PA 15276
Telephone (412) 249-3850

Subscribed and sworn before me this 8th day of August
Constance C. Carden Notary Public
My Commission Expires November 16, 2013

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 depprivacyofficer@wv.gov.

Kessinger & Meyers #1

API # 47-005-01149

WW-4A - Surface Owners(s) to be served:

**James A. Fankhauser
205 Handley Circle
Danville, WV 25053**

**Barbara Messer & Melvin Messer
P.O. Box 541
Madison, WV 25130**

**Boone Memorial Park
P.O. Box 175
Danville, WV 25053**

**Gary Norwood Miller
P.O. Box 639
Madison, WV 25130**

WW-9
(5/13)

Page _____ of _____
API Number 47 - 005 - 01149
Operator's Well No. Kessinger & Meyers #1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

ANY EFFLUENT MUST BE CONTAINED IN TANKS

Operator Name Cabot Oil & Gas Corporation OP Code _____

Watershed (HUC 10) Spruce Fork of Little Coal River Quadrangle Madison

Elevation 783.68' County Boone District Washington

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes _____ No X

Will a pit be used for drill cuttings? Yes _____ No X

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes _____ No X 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)
- Other (Explain No treated pit wastes will be produced)

Will closed loop system be used? N/A

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. no drilling proposed

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? N/A

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced during plugging operation

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

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 *Kenneth L. Marcum*

Company Official (Typed Name) Kenneth L. Marcum

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 8th day of August, 20 13

Constance A. Carden

COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Notary Public Constance C. Carden, Notary Public
Donald Boro, Washington County
Commission Expires Nov. 16, 2013
Pennsylvania Association of Notaries

My commission expires 11/16/2013

Form WW-9

Operator's Well No. Kessinger & Myers #1

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

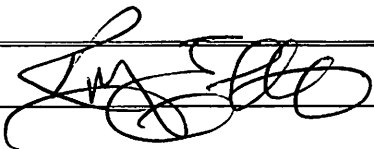
Mulch Pulp Fiber at 1000 to 1500 Tons/acre

Seed Mixtures

| Area I | | | | Area II | | | |
|--------------------|------------------------|-------------|--|-------------------|-----------------------|-------------|--|
| Seed Type | | lbs/acre | | Seed Type | | lbs/acre | |
| Grain Rye - 100 | Red Clover - 5 | Fescue - 40 | | Grain Rye - 100 | Red Clover - 5 | Fescue - 40 | |
| Annual Rye - 20 | White Clover - 5 | | | Annual Rye - 20 | White Clover - 5 | | |
| Perennial Rye - 10 | Alta Sweet Clover - 5 | | | Perennial Rye - 1 | Alta Sweet Clover - 5 | | |
| Yellow Clover - 5 | Birdsfoot Trefoil - 10 | | | Yellow Clover - 5 | Birdsfoot Trefoil | | |

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

Title: WV DEP Oil & Gas Inspt Date: 9/20/13

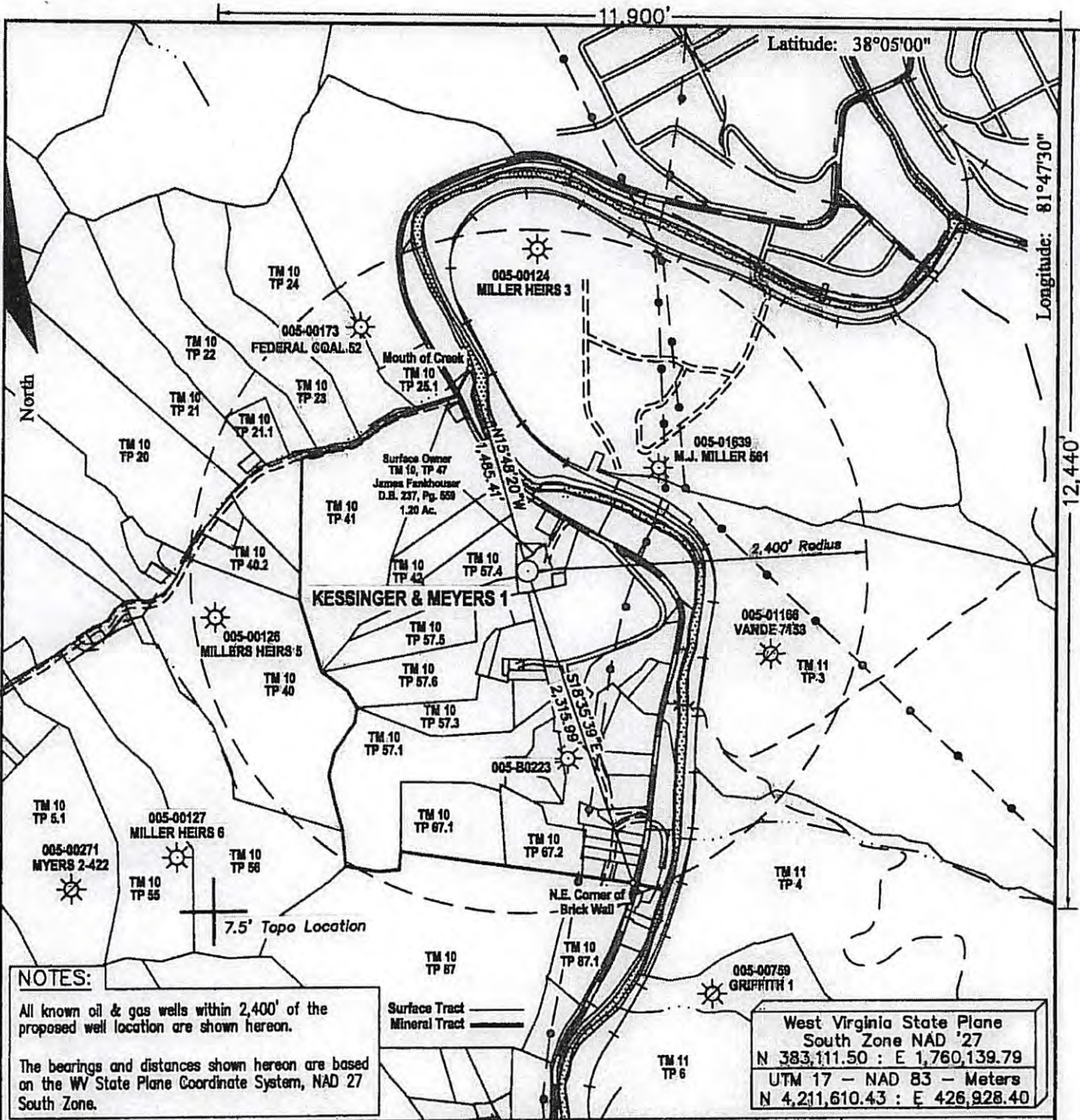
Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

SEP 25 2013

WV Department of
Environmental Protection

501149 P



NOTES:

All known oil & gas wells within 2,400' of the proposed well location are shown hereon.

The bearings and distances shown hereon are based on the WV State Plane Coordinate System, NAD 27 South Zone.

West Virginia State Plane
South Zone NAD '27
N 383,111.50 : E 1,760,139.79
UTM 17 - NAD 83 - Meters
N 4,211,610.43 : E 426,928.40

FILE #:
DRAWING #: K & M 1 ww6
SCALE: 1" = 1000'
MINIMUM DEGREE OF ACCURACY: 1 : 12,729
PROVEN SOURCE OF ELEVATION: Global Positioning System (GPS)

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 ENVIRONMENTAL PROTECTION.

Signed: Don K. Cunningham
R.P.E.: _____ L.L.S.: 701

PLACE SEAL HERE

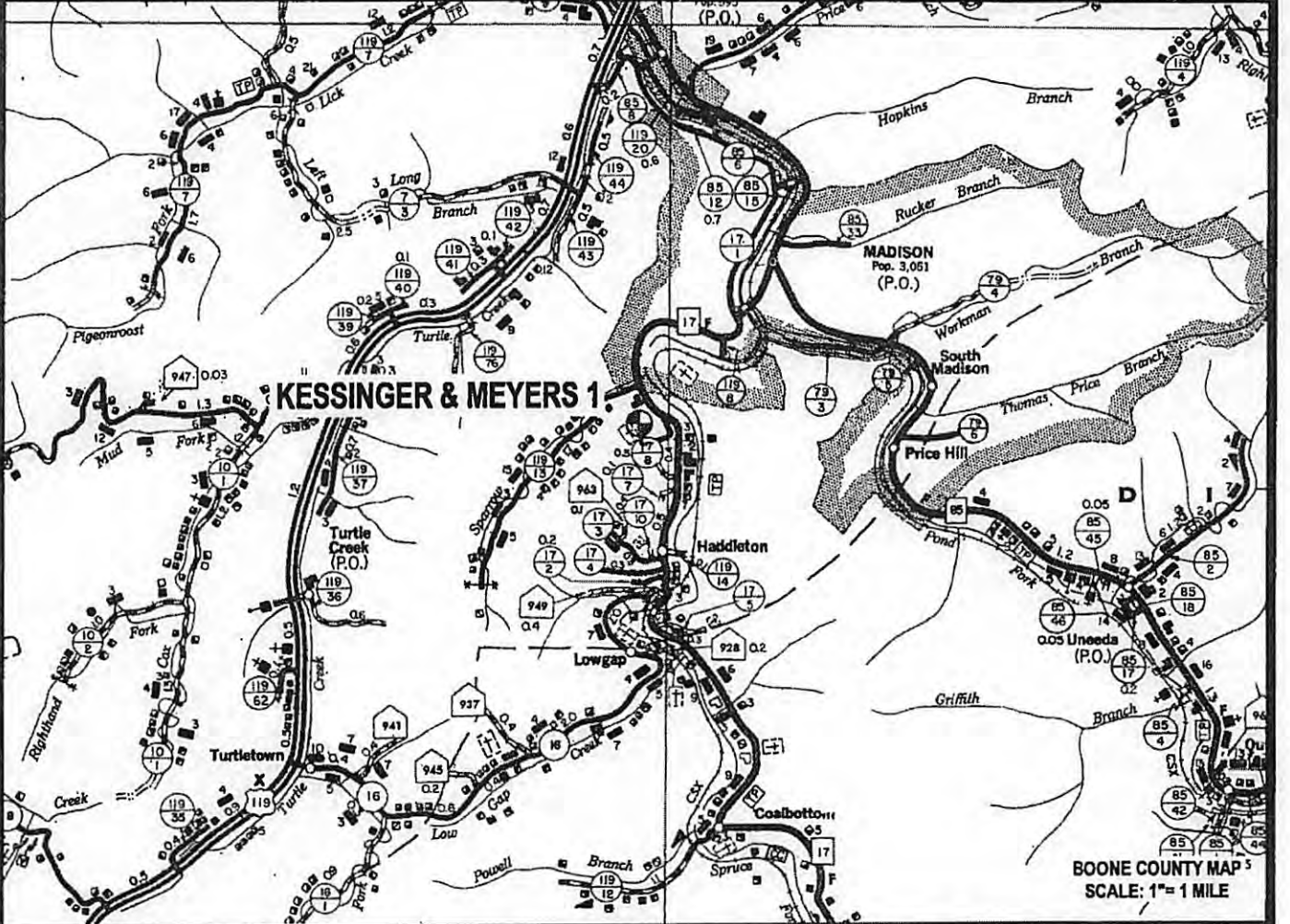
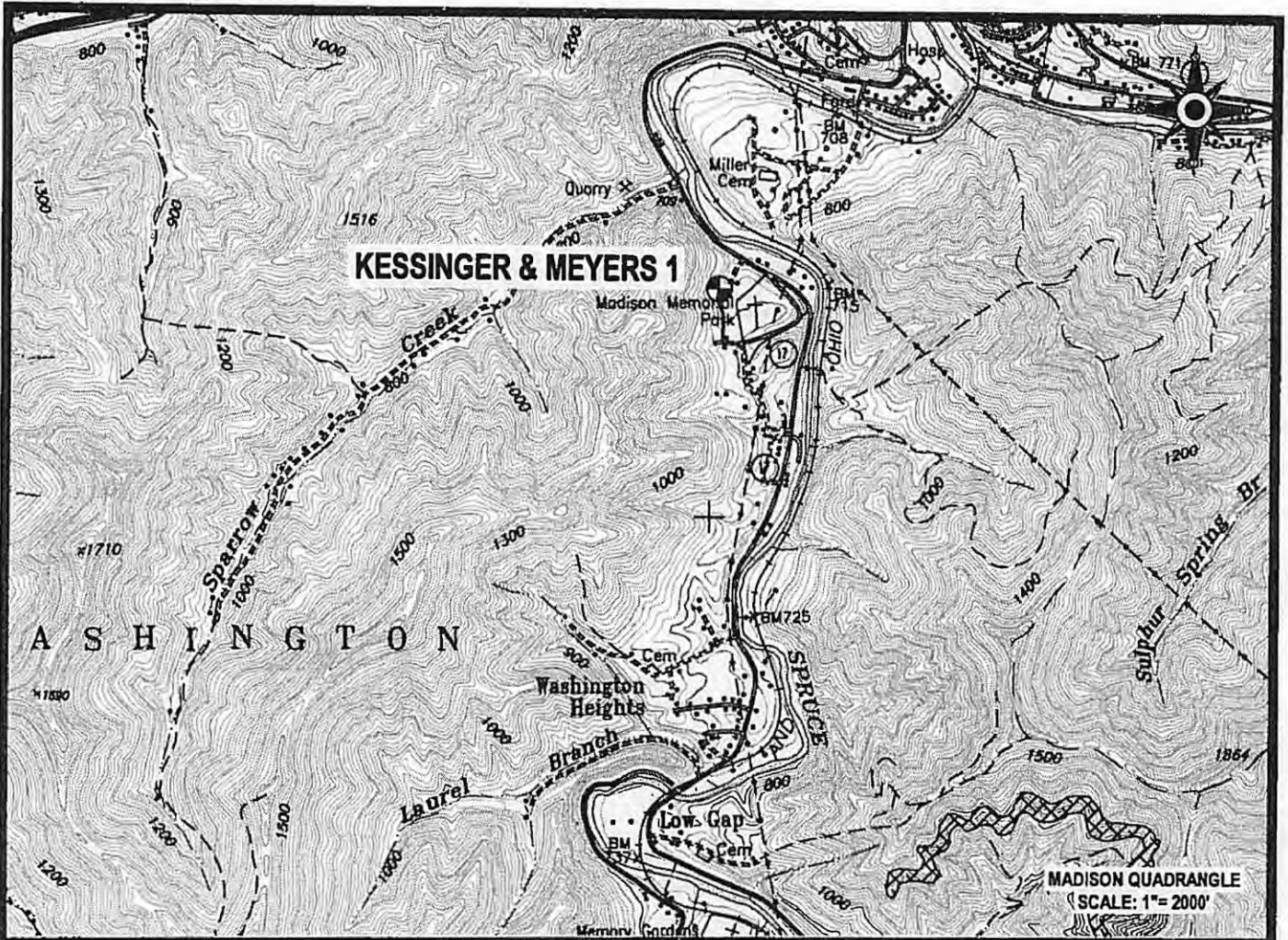
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: July 20, 2013
OPERATOR'S WELL #: Kessinger & Meyers 1
API WELL #: 47 005 01149 P
STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: Spruce Fork of Little Coal River ELEVATION: 783.68'
COUNTY/DISTRICT: Boone / Washington QUADRANGLE: Madison
SURFACE OWNER: James Fankhouser ACREAGE: 1.20
OIL & GAS ROYALTY OWNER: Kessinger & Meyers ACREAGE: 150
LEASE #: 47-04179 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
47-04280 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____
TARGET FORMATION: _____ ESTIMATED DEPTH: _____
WELL OPERATOR Cabot Oil & Gas Corp. DESIGNATED AGENT Brian Hall
Address Five Penn Center West, Suite 401 Address P.O. Box 260
City Pittsburgh State PA Zip Code 15276 City Danville State WV Zip Code 25053



C Cabot Oil & Gas Corporation

KESSINGER & MEYERS 1
LOCATION MAP



CUNNINGHAM

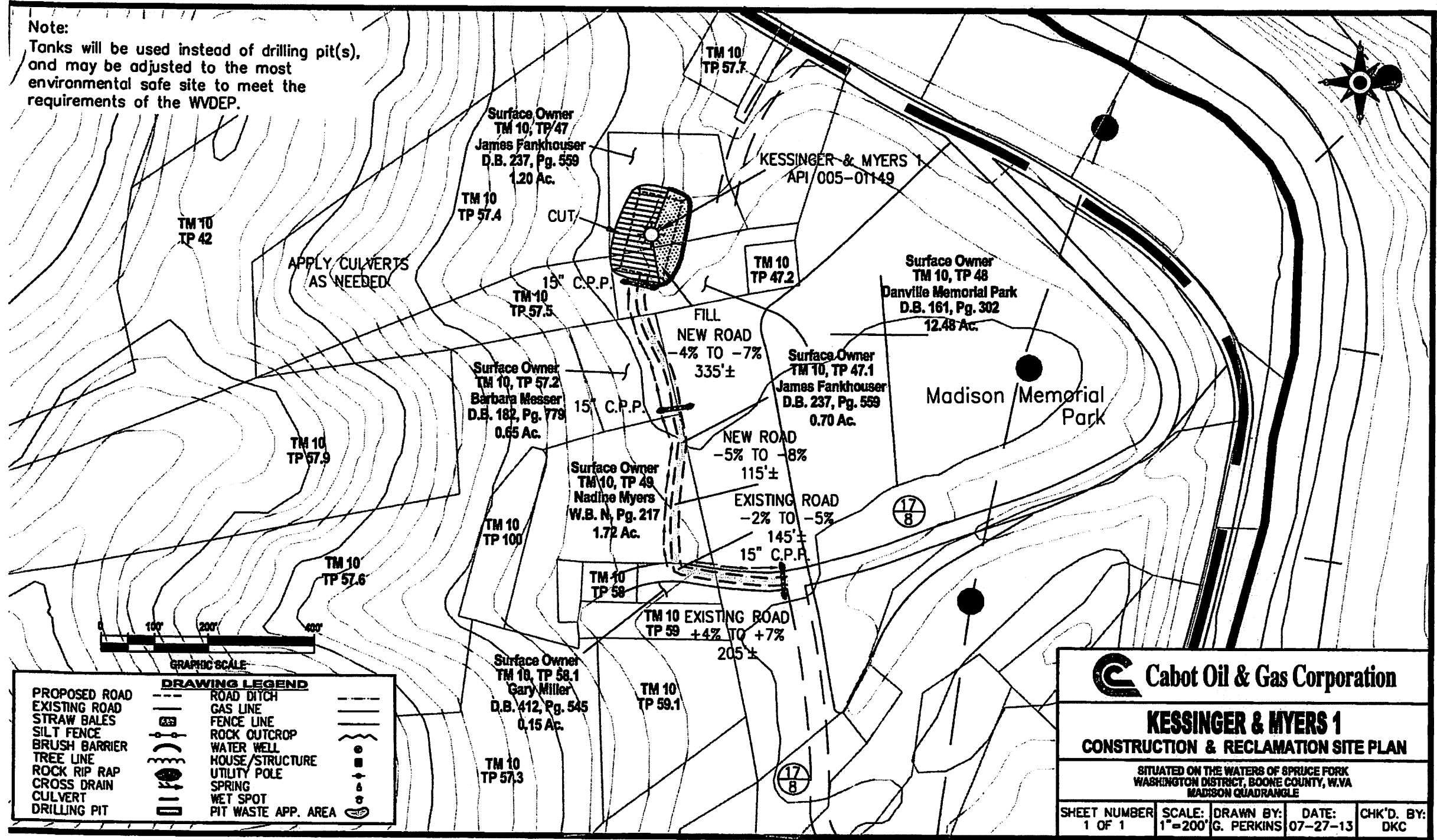
LAND SURVEYING & MAPPING SERVICES, LLC
 • 5213 STEPHEN WAY •
 • CROSS LANES, WEST VIRGINIA 25313 •
 • VOICE (304) 561-4129 • FAX (304) 776-0703 •
 • E-MAIL ADDRESS • DKUNNINGHAM@SUDDENLINK.NET •

LOCATED ON THE WATERS OF SPRUCE FORK
 OF LITTLE COAL RIVER
 WASHINGTON DISTRICT, BOONE COUNTY, W.VA
 MADISON QUADRANGLE

| | |
|--|-------------------------------|
| PROJECT NO. CABOT | DWG. NO. KESS MEYER 1 LOC.DWG |
| DATE: 07-27-13 | SCALE: AS NOTED |
| | CHK'D BY: D.K.C. |
| DRAWN BY: G. PERKINS FILE: C:\PROJECT FOLDER\CABOT | |

501149P

Note:
Tanks will be used instead of drilling pit(s),
and may be adjusted to the most
environmental safe site to meet the
requirements of the WVDEP.



| DRAWING LEGEND | |
|----------------|---------------------|
| PROPOSED ROAD | ROAD DITCH |
| EXISTING ROAD | GAS LINE |
| STRAW BALES | FENCE LINE |
| SILT FENCE | ROCK OUTCROP |
| BRUSH BARRIER | WATER WELL |
| TREE LINE | HOUSE/STRUCTURE |
| ROCK RIP RAP | UTILITY POLE |
| CROSS DRAIN | SPRING |
| CULVERT | WET SPOT |
| DRILLING PIT | PIT WASTE APP. AREA |

| | | | | |
|---|-------------------|-------------------------|-------------------|-------------------|
| | | | | |
| KESSINGER & MYERS 1 CONSTRUCTION & RECLAMATION SITE PLAN | | | | |
| <small>SITUATED ON THE WATERS OF SPRUCE FORK WASHINGTON DISTRICT, BOONE COUNTY, W.VA MADISON QUADRANGLE</small> | | | | |
| SHEET NUMBER 1 OF 1 | SCALE: 1"=200' | DRAWN BY: G. PERKINS | DATE: 07-27-13 | CHK'D. BY: DKC |

501149P

GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD. PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS-BUILT LOCATION OF THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL.

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY. SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST. ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK. STONE WILL BE PLACED ABOVE ALL CULVERTS.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS-BUILT ROADWAY SLOPES AND TABLE 11-4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WVDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

| ROAD GRADE (%) | DISTANCE (FT) |
|----------------|---------------|
| 1 | 400 |
| 2 | 250 |
| 5 | 135 |
| 10 | 80 |
| 15 | 60 |
| 20 | 45 |

| ROAD GRADE (%) | DISTANCE (FT) |
|----------------|---------------|
| 2-5 | 500-300 |
| 6-10 | 300-200 |
| 11-15 | 200-100 |
| 16-20 | 100 |



1-800-245-4848

DRAWING LEGEND

- PROPOSED ROAD -----
- EXISTING ROAD -----
- STRAW BALES [Symbol]
- SILT FENCE [Symbol]
- BRUSH BARRIER [Symbol]
- TREE LINE [Symbol]
- ROCK RIP RAP [Symbol]
- CROSS DRAIN [Symbol]
- CULVERT [Symbol]
- DRILLING PIT [Symbol]
- ROAD DITCH [Symbol]
- GAS LINE [Symbol]
- FENCE LINE [Symbol]
- ROCK OUTCROP [Symbol]
- WATER WELL [Symbol]
- HOUSE/STRUCTURE [Symbol]
- UTILITY POLE [Symbol]
- SPRING [Symbol]
- WET SPOT [Symbol]
- PIT WASTE APP. AREA [Symbol]

DRIVING DIRECTIONS FOR KESSINGER & MEYERS 1

- 1.) FROM THE INTERSECTION STATE ROUTE 17 AND STATE ROUTE 85 TAKE STATE ROUTE 17 SOUTH FOR APPROXIMATELY 1.7 MILES TO SECONDARY ROUTE 17/8.
- 2.) TURN RIGHT AND GO WEST FOR APPROXIMATELY 0.2 MILES TO THE EXISTING ACCESS ROAD LOCATED ON THE RIGHT-HAND SIDE OF THE ROADWAY.
- 3.) TURN RIGHT AND GO NORTH FOR APPROXIMATELY 0.1 MILE TO THE EXISTING WELL LOCATION AS SHOWN ON THE "CONSTRUCTION AND RECLAMATION PLAN".



Cabot Oil & Gas Corporation
August 8, 2013

Chief
West Virginia Division of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Kessinger & Meyers #1
Washington District, Boone County, WV
API # 47-005-01149
Written Application to plug and abandon wellbore

Dear Chief:

In accordance with Article 22-6-23 of the Code of State Regulations regarding oil and gas operations, please find attached a formal application for the plug and abandonment of the subject well.

Notices of our intention to plug this wellbore have been sent to surface owner, coal owner, and coal operators associated with this well. Copies of the certified mail receipts are attached for your records.

If you have any questions or need additional information, I can be reached at 412-249-3850.

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth L. Marcum".

Kenneth L. Marcum
Regulatory Supervisor

501149P



September 23, 2013

West Virginia Division of Environmental Protection
Attn: Justin Nottingham
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: Kessinger & Meyers #1
API # 47-005-01149
P&A Application
Boone County, WV

Dear Mr. Nottingham:

Please find enclosed per your request the original inspector sign-off pages for the referenced plug and abandon permit application.

If anything further is needed please contact me at 412-249-3903 or at connie.carden@cabotog.com.

Sincerely,

Connie Carden
Regulatory Analyst

RECEIVED
Office of Oil and Gas
SEP 25 2013
WV Department of
Environmental Protection