



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

December 02, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-5901886, issued to QUALITY NATURAL GAS, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: 1728
Farm Name: DEATON, DANIEL
API Well Number: 47-5901886
Permit Type: Re-Work
Date Issued: 12/02/2015

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. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. 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.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

Form: WW - 2B

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

1) Well Operator Quality Natural Gas, LLC 494477013 059 Magnolia Matewan
Operator ID County District Quadrangle

2) Operators Well Number 1728 3) Elevation: 782.4'

4) Well Type: (a) Oil _____ or Gas X
 (b) If Gas: Production X / Underground Storage _____
 Deep _____ / Shallow X

5) Proposed Target Formation(s): Devonian Shale

6) Proposed Total Depth: 4,355 Feet

7) Approximate fresh water strata depths: _____

8) Approximate salt water depths: None Expected

9) Approximate coal seam depths: _____ 135'

10) Does land contain coal seams tributary to active mine? No

11) Describe proposed well work Re-work Existing Well, PERFORATE & NITROGEN FRAC.

12) **CASING AND TUBING PROGRAM**

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|---------------|-------------------|--------------|--------------------|
| | Size | Grade | Weight per ft | For Drilling | Left in Well | Fill -up (Cu. Ft.) |
| Conductor | 13 3/8" | L.S. | 37 | 33.10 | 33.10 | C.T.S. |
| Fresh Water | 9 5/8" | L.S. | 26 | 250' | 250' | C.T.S. |
| Coal | 9 5/8" | L.S. | 26 | 250' | 250' | C.T.S. |
| Intermediate | 7" | L.S. | 17 | 2055' | 2055' | C.T.S. |
| Production | 4 1/2" | J55 | 10.5 | 4335' | 4335' | 200' in 7" line |
| Tubing | | | | | | |
| Liners | | | | | | |

Packers: Kind _____
 Sizes _____
 Depths Set _____

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 Office of Oil and Gas

NOV 30 2015

WV Department of
 Environmental Protection

5901886 W

WK-35
Rev (5-01)

DATE: 06-24-2011
API #: 47-5901886

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

Well Operator's Report of Well Work

Farm name: DANIEL DEATON Operator Well NO.: 1728

LOCATION: Elevation: 782.4' Quadrangle: MATEWAN

District: MAGNOLIA County: MINGO
Latitude: 8,807 Feet South of 37 Deg. 35 Min. 00 Sec.
Longitude 2,156 Feet West of 82 Deg. 07 Min. 30 Sec.

Company: M&M DRILLING, INC.

| | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| Address: <u>HC 71, RT. 4, BOX 87-A</u> | <u>13 3/8"</u> | <u>32'</u> | <u>32'</u> | |
| <u>WHARNCLIFFE, WV 25651</u> | <u>9 5/8"</u> | <u>755'</u> | <u>755'</u> | <u>307</u> |
| Agent: <u>JAMES HILL</u> | <u>7"</u> | <u>2358'</u> | <u>2358'</u> | <u>504</u> |
| Inspector: <u>GARY SCITES</u> | <u>4 1/2"</u> | <u>5020'</u> | <u>5020'</u> | <u>314</u> |
| Date Permit Issued: <u>12/20/2007</u> | | | | |
| Date Well Work Commenced: <u>11/12/09</u> | | | | |
| Date Well Work Completed: <u>11/18/09</u> | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary <u>YES</u> Cable Rig | | | | |
| Total Depth (feet): <u>4,615'</u> | | | | |
| Fresh Water Depth (ft.): <u>90', 293'</u> | | | | |
| Salt Water Depth (ft.): | | | | |
| Is coal being mined in area (N/Y)? <u>NO</u> | | | | |
| Coal Depths (ft.): <u>116-117', 162-164'</u> | | | | |

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JUN 30 2011
Office of Oil and Gas

OPEN FLOW DATA

Producing formation Shale, Shale/Berea/Big Lime Pay zone depth (ft) SEE ATTACHED
Gas: Initial open flow 94 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
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 initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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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.

WV Department of Environmental Protection

Signed: [Signature]
Date: June 27, 2011

5901886 W

API# 47-5901880

WELL 1728

| FROM | TO | ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH) | FROM | TO | ROCK TYPE (DESCRIBE ROCK TYPES AND OTHER MATERIALS PENETRATED AND RECORD OCCURRENCES OF OIL GAS, AND WATER FROM SURFACE TO TOTAL DEPTH) |
|------|------|--|------|----|--|
| 0 | 8 | SUB BASE | | | GAS CHECK @ 2375' - WEIR/SMELL |
| 8 | 21 | SANDSTONE | | | GAS CHECK @ 3007' - BROWN/SMELL |
| 21 | 116 | SAND/SHALE | | | GAS CHECK @ 4615' - TD/94,000 |
| 116 | 117 | COAL | | | |
| 117 | 162 | SAND/SHALE | | | |
| 162 | 164 | COAL | | | |
| 164 | 1500 | SAND/SHALE | | | |
| 1500 | 1515 | RED ROCK | | | |
| 1515 | 1540 | SAND/SHALE | | | |
| 1540 | 1555 | RED ROCK | | | |
| 1555 | 1748 | SAND/SHALE | | | |
| 1748 | 1875 | MAXTON | | | |
| 1875 | 1976 | SAND/SHALE | | | |
| 1976 | 2070 | LITTLE LIME | | | |
| 2070 | 2277 | BIG LIME | | | |
| 2277 | 2348 | INJUN | | | |
| 2348 | 2373 | WEIR | | | |
| 2373 | 2675 | SAND/SHALE | | | |
| 2675 | 2239 | SHALE | | | |
| 2939 | 2961 | BEREA | | | |
| 2961 | 3895 | SHALE | | | |
| 3895 | 3940 | SAND/SHALE | | | |
| 3940 | 4615 | SHALE | | | |
| | 4615 | T.D. | | | |

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Environmental Protection

QUALITY NATURAL GAS, LLC
WR-35 COMPLETION REPORT - Attachment
TREATMENT SUMMARY

WELL NAME & NO. QUALITY NATURAL GAS, LLC, #1728
API # 47-5901886
DATE NOT YET TREATED

STAGE NO. 1

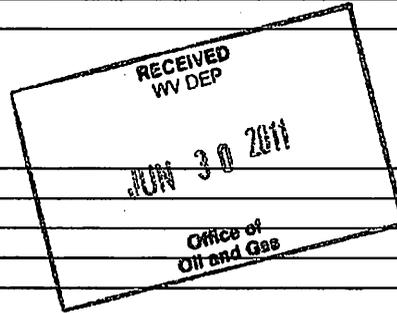
TYPE FRAC _____
ACID AMOUNT _____
PERFORATIONS _____
PERF INTERVAL _____
MAXIMUM PRESSURE _____
INSTANT SHUT IN PRESSURE _____
TOTAL TREATMENT VOLUME _____

STAGE NO. 2

TYPE FRAC _____
ACID AMOUNT _____
PERFORATIONS _____
PERF INTERVAL _____
MAXIMUM PRESSURE _____
INSTANT SHUT IN PRESSURE _____
TOTAL TREATMENT VOLUME _____

STAGE NO. 3

TYPE FRAC _____
ACID AMOUNT _____
PERFORATIONS _____
PERF INTERVAL _____
MAXIMUM PRESSURE _____
INSTANT SHUT IN PRESSURE _____
TOTAL TREATMENT VOLUME _____



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WV Department of
Environmental Protection

CK# 11891
3,300.00

1) Date: August 6, 2015

2) Operator's Well Number 1728

3) API Well No.: 47 - 0590 - 18860000
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE AND APPLICATION FOR A WELL WORK PERMIT**

4) Surface Owner(s) to be served:
(a) Name Daniel E. Deaton *waived*
Address 16 W 5th Ave.
Williamson, WV 25661

(b) Name _____
Address _____

(c) Name _____
Address _____

6) Inspector Mr. Jeremy James
Address P.O. Box 147
Ona, WV 25508
Telephone (304) 951-2596

5) (a) Coal Operator
Name N/A
Address _____

(b) Coal Owner(s) with Declaration
Name See Attached Sheet
Address _____

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

OR
 Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through ___ on the above named parties by:

- _____ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 and imprisonment.



Well Operator Quality Natural Gas, LLC / By: Quality Natural Gas Management, LLC / Its: Manager
By: _____
Its: Manager *Jerry King*
Address P.O. Box 480
Allen, KY 41601
Telephone (606) 874-8041

Subscribed and sworn before me this 25 day of August, 2015
[Signature] Notary Public
My Commission Expires 7-27-2017
Received Office of Oil & Gas
SEP 10 2015

5 (b)

Daniel E. Deaton
16 W 5th Ave
Williamson, WV 25661

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Office of Oil & Gas
SEP. 10 2015

WW-2A Coal Waiver

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 1728

INSTRUCTIONS TO COAL OPERATOR, OWNER, OR LESSEE

To the coal operator, owner, or lessee named on page WW2-A. You are hereby notified that any objection you wish to make or are required to make by Code 22-6-15, 16 or 17, must be filed with the Chief of the Office of Oil and Gas within fifteen (15) days after the receipt of this application by the Office.

5901886W

WAIVER

The undersigned coal operator _____ / owner X / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

FOR EXECUTION BY A NATURAL PERSON

 Date _____
Signature
Daniel E. Deaton

FOR EXECUTION BY A CORPORATION, ETC.

Company Name _____
By _____
Its _____
Signature _____ Date _____

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Office of Oil & Gas
SEP 10 2015

Daniel E. Deaton

142 Blackfoot Trail
Gainesville, Texas 76240

August 6, 2015

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

Quality Natural Gas, LLC
Gas Well Application
Well Number 1728 WV State Plane Coordinates N 205,611
E 1,671,732

Dear Mr. Smith:

The undersigned coal owner of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

Daniel E. Deaton

By:  _____

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Office of Oil & Gas

SEP 10 2015

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6, Section 8(d)
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 |
|-----------------------|-----------------------------|---------|-----------|
| Daniel E. Deaton | Kinzer Business Realty, LTD | 1/8 | 190/440 |

Well Operator: Quality Natural Gas, LLC / BY: Quality Natural Gas Management, LLC / Its: Manager
 By: *Jerry Kinzer*
 Its: Manager

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SEP 10 2015

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STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: Quality Natural Gas, LLC OP Code: 494477013

Watershed: Tug River Quadrangle: Matewan

Elevation 782.4' County: Mingo District: Magnolia

Description of anticipated Pit Waste: _____

Will a synthetic liner be used in the pit? _____

NO PIT.
ANY WELL EFFLUENT MUST BE
CONTAINED IN TANKS AND DISPOSED
OF PROPERLY. gmm

Proposed Disposal Method For Treated Pit Wastes:

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

Proposed Work For Which Pit Will Be Used:

- _____ Drilling
- _____ Swabbing
- _____ Workover
- _____ Plugging
- X _____ Other (Explain Frac Well _____)

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on December 31, 1999, by the Office of Oil and Gas of the West Virginia Division 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 Jerry Kinzer

Company Official (Typed Name) Terry Kinzer and/or Jerry Kinzer

Company Official Title Manager / Quality Natural Gas Management, LLC / Manager of Quality Natural Gas, LLC

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Office of Oil & Gas

Subscribed and sworn before me this 26 day of August, 2015

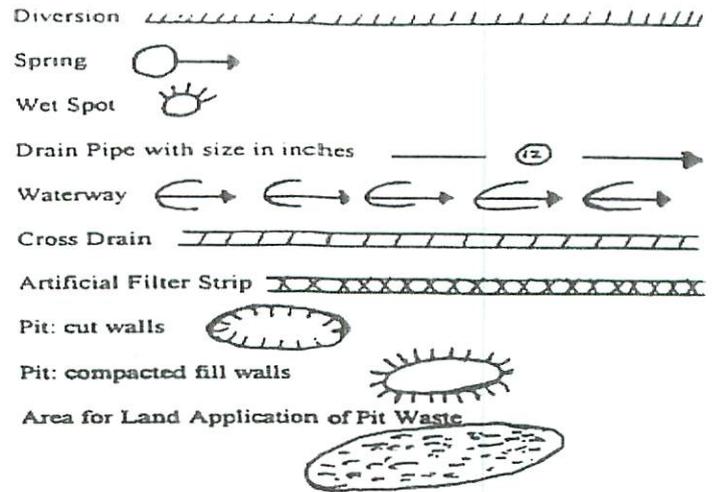
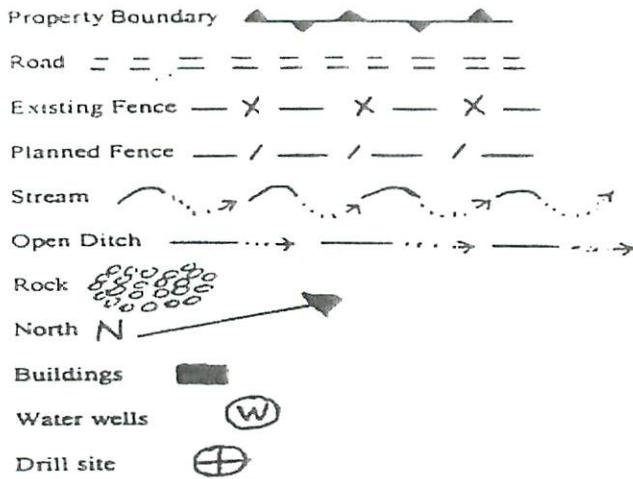
SEP 10 2015

[Signature] Notary Public

My Commission Expires 7.27.2017



LEGEND



Proposed Revegetation Treatment: Acres Disturbed 2 Prevegetation pH 7.0

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 Ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed

Seed Mixtures

| Area I | | Area II | |
|----------------------|-----------|----------------------|-----------|
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| KY-31 | 40 | Orchard Grass | 15 |
| Alsike Clover | 10 | Alsike Clover | 5 |
| Annual Rye | 5 | | |
| Redtop | 2 | | |

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by:

Received
Office of Oil & Gas
SEP 10 2015

Comments: _____

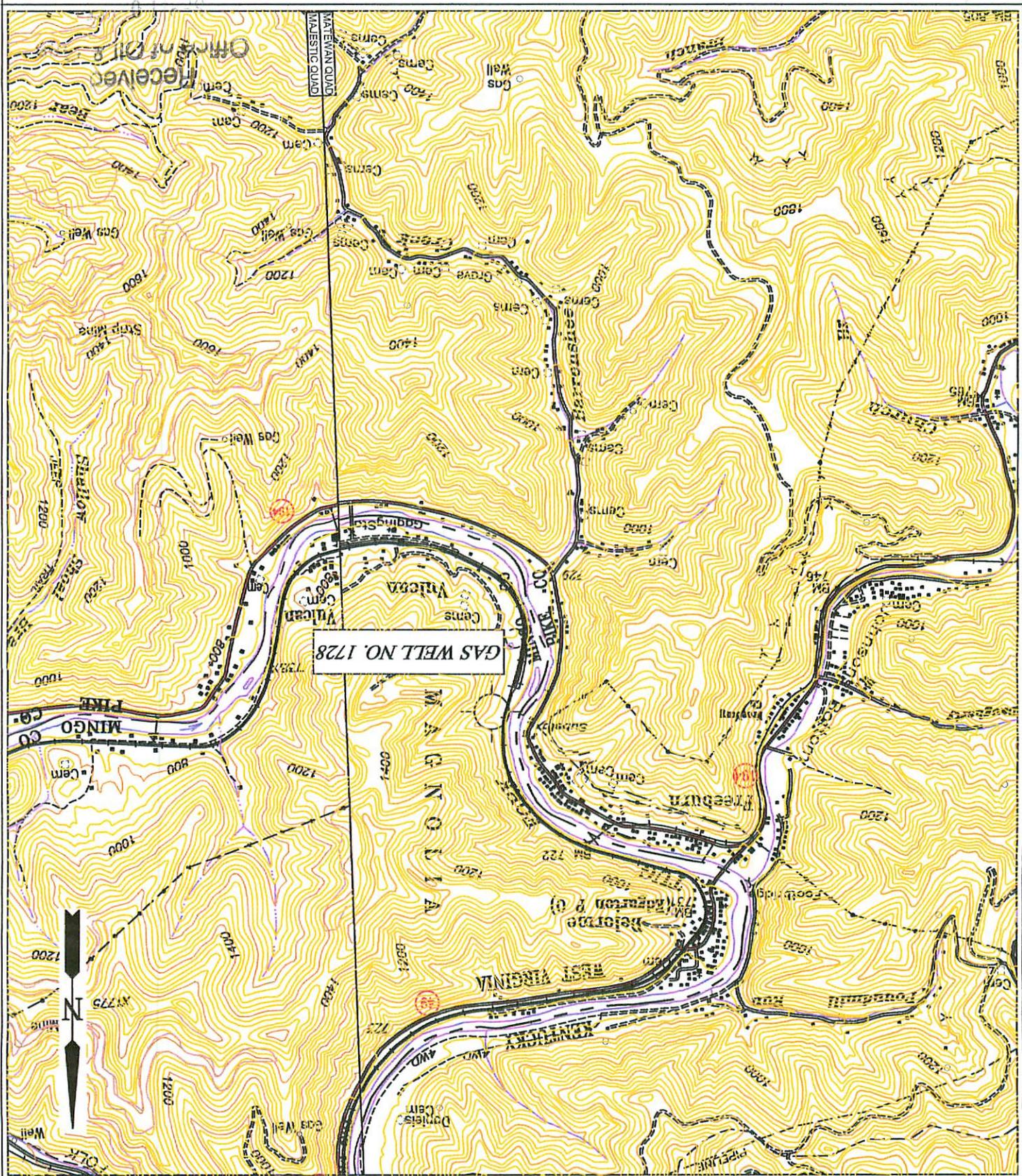
Title Inspector Date: 8-21-15

Field Reviewed? () Yes () No

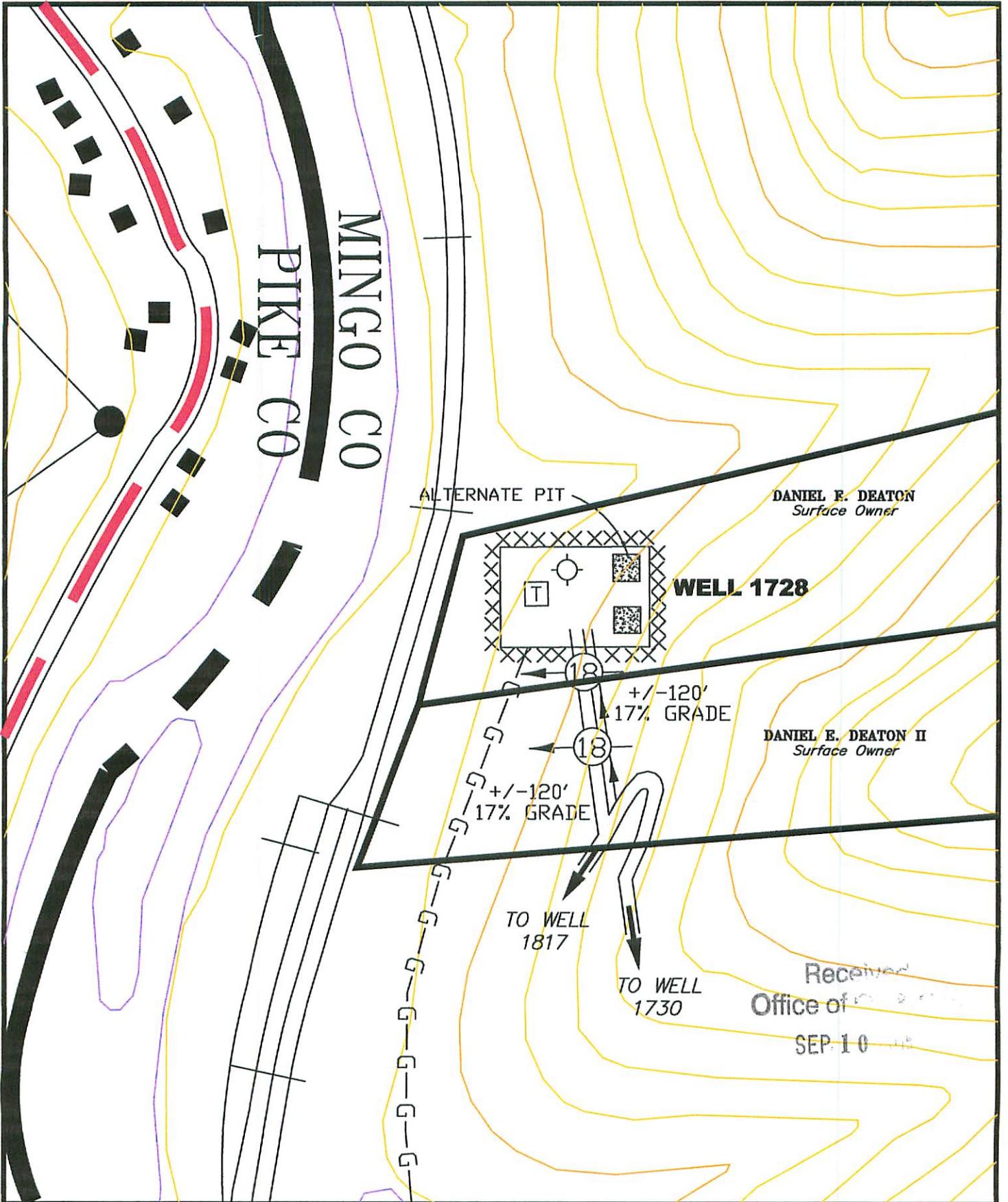
| |
|---------------------------|
| FILE NAME: WVAVIC1728.DWG |
| DATE: 08/25/2015 |
| SCALE: 1" = 2000' |
| QUAD: MATEWAN |

PROPOSED GAS WELL NO. 1728
LOCATION MAP
 QUALITY NATURAL GAS, LLC.

B & B Engineering, LLC
 P.O. Box 1596
 Prestonsburg, KY 41653
 Phone: (606) 285-3400



5901886 W



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Office of
SEP 10

EXHIBIT MAP
SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES

| | | | | | |
|----------------|--|-----------------|--|--------------------|--|
| STREAM | | WATER WELL | | STORAGE TANK | |
| ROAD | | PROPOSED WELL | | SPRING | |
| EXISTING FENCE | | FLOW LINE | | PIT: FILL WALLS | |
| PLANNED FENCE | | CROSS DRAIN | | PIT: CUT WALLS | |
| OPEN DITCH | | DRAIN PIPE | | STORAGE WASTE AREA | |
| ROCK | | FILTER STRIP | | | |
| BUILDING | | DIVERSION DITCH | | | |

B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 874-7005

QUADRANGLE: MATEWAN

COUNTY: MINGO

LEASE #: 855

DATE: 08-25-2015

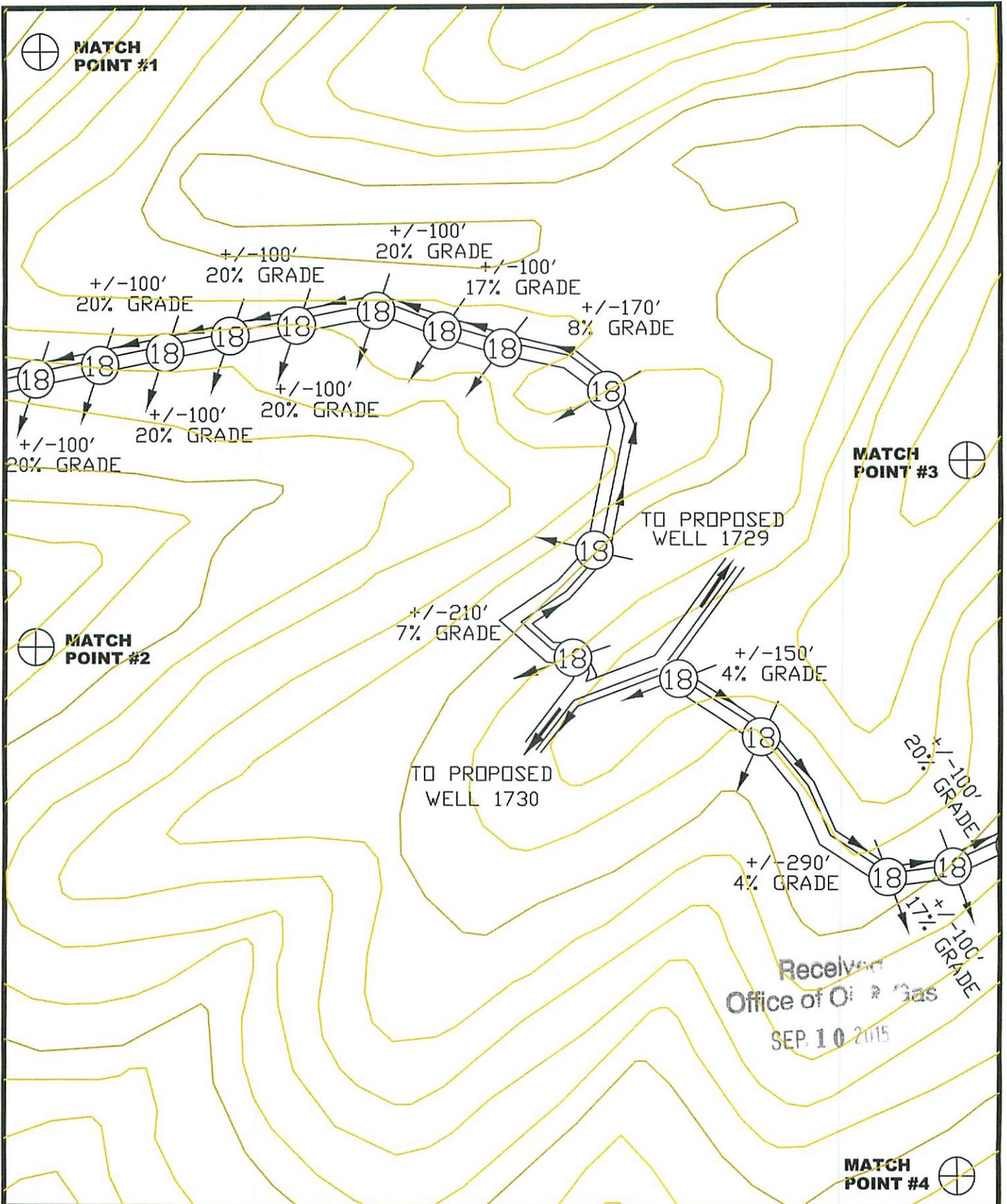
SCALE: 1" = 200'

DRAWING FILE: WVAREC1728.DWG

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON

WELL SITE RECLAMATION PLAN
GAS WELL No. 1728

QUALITY NATURAL GAS, LLC.
P.O. Box 480
Allen, Kentucky 41601



SHEET 2 OF 3



EXHIBIT MAP
SURFACE PROPERTY LINES ARE APPROXIMATE; NOT TO BE USED FOR TRANSFER PURPOSES

| | | | | | |
|----------------|--|-----------------|--|-----------------|--|
| STREAM | | WATER WELL | | STORAGE TANK | |
| ROAD | | PROPOSED WELL | | SPRING | |
| EXISTING FENCE | | FLOW LINE | | PIT: FILL WALLS | |
| PLANNED FENCE | | CROSS DRAIN | | PIT: CUT WALLS | |
| OPEN DITCH | | DRAIN PIPE | | STORAGE | |
| ROCK | | FILTER STRIP | | WASTE AREA | |
| BUILDING | | DIVERSION DITCH | | | |

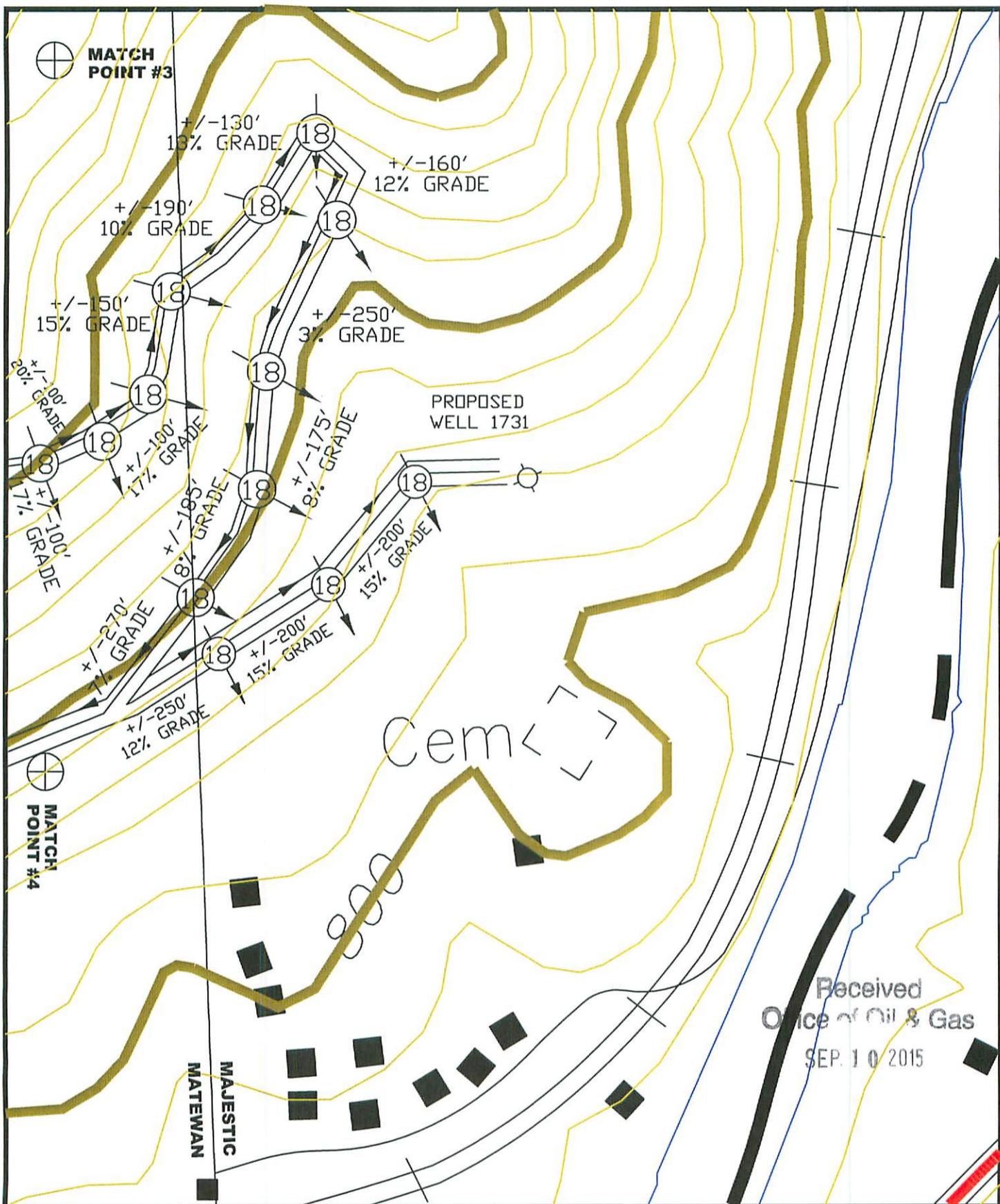
B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 874-7005

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 855
DATE: 08-06-2015
SCALE: 1" = 200'
DRAWING FILE: WVAREC1728_20F3.DWG

**WELL SITE RECLAMATION PLAN
GAS WELL No. 1728**

QUALITY NATURAL GAS, LLC.
P.O. Box 480
Allen, Kentucky 41601



SHEET 3 OF 3



EXHIBIT MAP
SURFACE PROPERTY LINES ARE APPROXIMATE, NOT TO BE USED FOR TRANSFER PURPOSES

| | | | | | |
|----------------|--|-----------------|--|-----------------|--|
| STREAM | | WATER WELL | | STORAGE TANK | |
| ROAD | | PROPOSED WELL | | SPRING | |
| EXISTING FENCE | | FLOW LINE | | PIT: FILL WALLS | |
| PLANNED FENCE | | CROSS DRAIN | | PIT: CUT WALLS | |
| OPEN DITCH | | DRAIN PIPE | | STORAGE | |
| ROCK | | FILTER STRIP | | WASTE AREA | |
| BUILDING | | DIVERSION DITCH | | | |

B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 874-7005

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
CHARLESTON

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 855
DATE: 08-06-2015
SCALE: 1' = 200'
DRAWING FILE: WVAREC1728_3DF3.DWG

**WELL SITE RECLAMATION PLAN
GAS WELL No. 1728**

QUALITY NATURAL GAS, LLC.
P.O. Box 480
Allen, Kentucky 41601

5901886 W

2156'

LAT. 37° 33' 32"

LONG. 82° 07' 56"

8807'

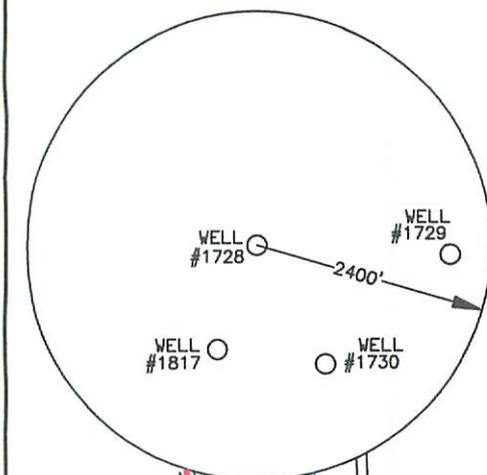
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Office of Oil and Gas

NOV 24 2015

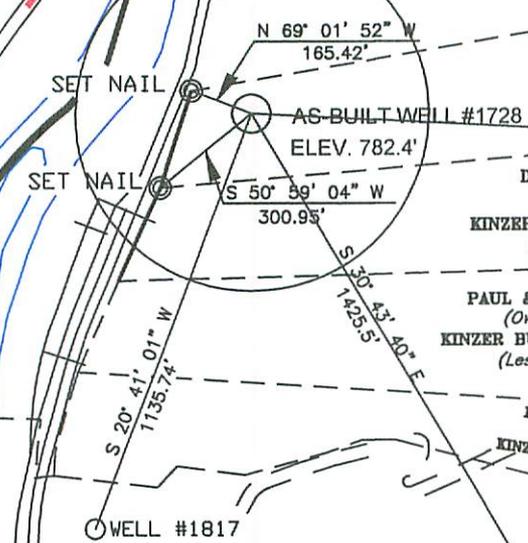
WV Department of
Environmental Protection

Cotiga Development Company
(Owner- Oil & Gas)
Chesapeake Appalachia, LLC.
(Lessee-Oil & Gas)

MATEWAN QUAD
MAJESTIC QUAD



DANIEL E. DEATON
Deed Book #190
Page #440
(Owner- Oil & Gas)
DANIEL E. DEATON
(Owner-Surface)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)
DANIEL E. DEATON
(Owner-coal)
Coal Not Leased



DANIEL E. DEATON, II
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

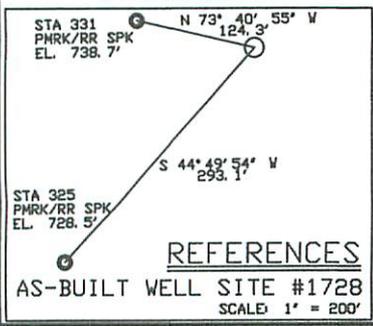
PAUL & DEBORAH JUSTICE
(Owner-Oil & Gas)
KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

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KINZER BUSINESS REALTY, LTD.
(Lessee-Oil & Gas)

Quality Natural Gas Properties, LTD.
(Owner-Oil & Gas)

NOTE: THERE ARE NO DWELLINGS
OR KNOWN WATER WELLS
WITHIN 200' OF AN
EXISTING WELL.



State Plane
WV South Nad 27
N = 205,611
E = 1,671,732

Geographic Nad 27
LAT = 37° 33' 33.36"
LONG = 82° 07' 56.26"

UTM NAD 83
Zone 17 (Meter)
N = 4,157,519
E = 399,994
State Plane
WV South NAD 83
N = 205654.16
E = 1,644,283.53

LEGEND

| | |
|-------|---|
| + | DENOTES LOCATION WELL ON UNITED STATES TOPOGRAPHICAL MAPS |
| ○ | PROPOSED WELL |
| ⊙ | PLUGGED WELL |
| ⊛ | EXISTING WELL |
| ● | SURVEY STATION |
| ○ | TREE |
| — | ROADS |
| —+—+— | RAILROAD |
| — | STREAM, DRAIN, CREEK |

DRAWING No. WVA1728.DWG
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1 IN 2,500'
PROVEN SOURCE OF ELEVATION USGS B. M.
MONUMENT # 722



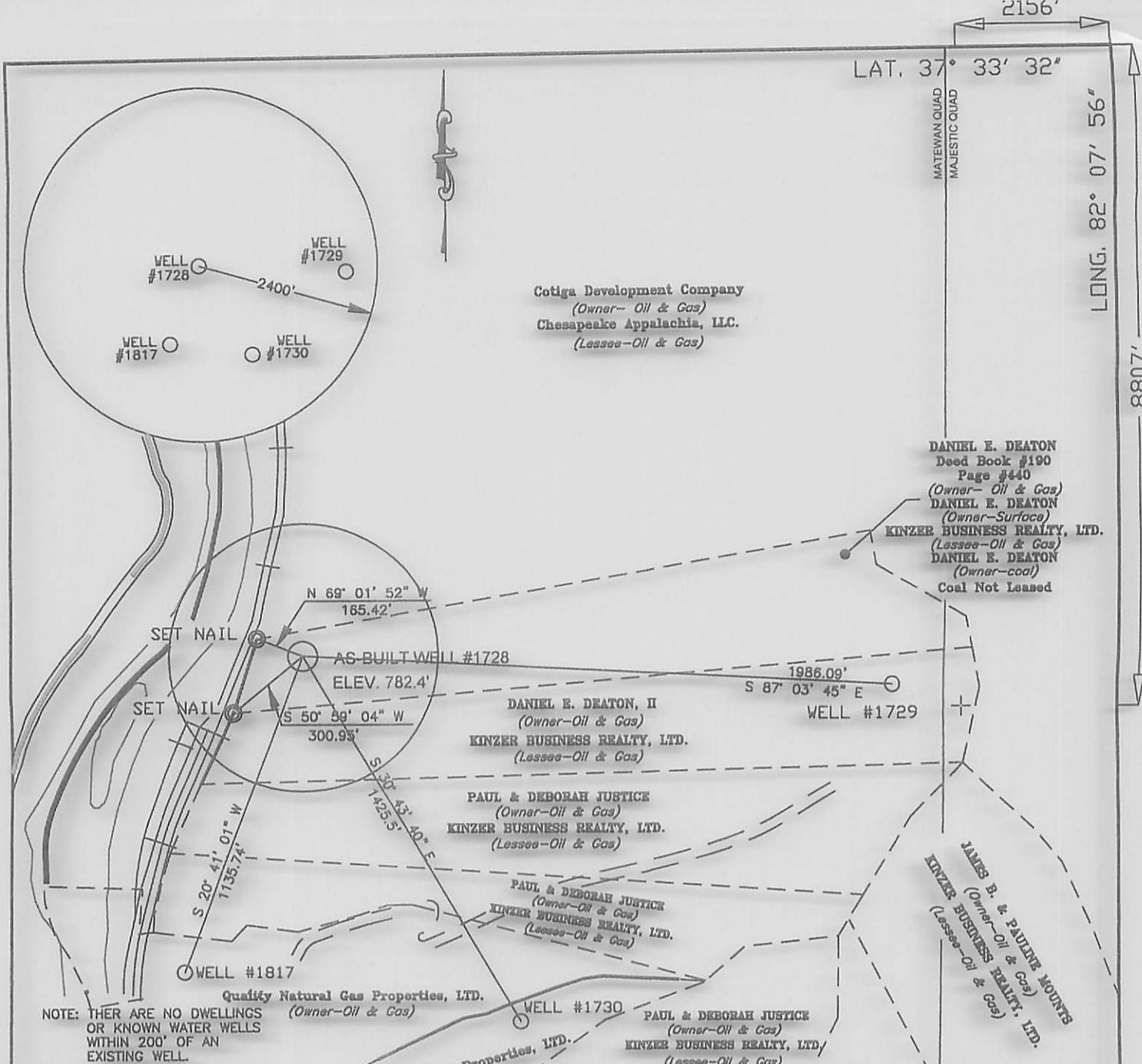
B & B Engineering, LLC
P.O. Box 1596
Prestonsburg, KY 41653
Phone: (606) 874-7005

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



DATE: 11/12/15
OPERATOR'S WELL NO. 1728
API WELL NO. 47059018860000
47 -- 59 -- 01886
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION OR STORAGE DEEP OR SHALLOW
LOCATION: ELEVATION 782.4' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN
SURFACE OWNER DANIEL DEATON ACREAGE +/- 17
OIL & GAS ROYALTY OWNER DANIEL DEATON LEASE ACREAGE +/- 17
LEASE No. 855
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4355'
WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL
ADDRESS P.O. BOX 480 ADDRESS HC 71 Rt. 4, BOX 87A
Allen, Kentucky 41601 WHARNCLIFFE, WV 25651



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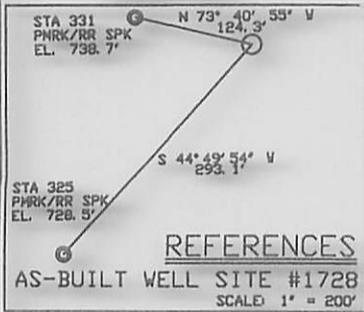
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 (Lessee-Oil & Gas)

JAMES B. & PAULINE MOTZ
 (Owner-Oil & Gas)
 KINZER BUSINESS REALTY, LTD.
 (Lessee-Oil & Gas)

Quality Natural Gas Properties, LTD.
 (Owner-Oil & Gas)

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 OR KNOWN WATER WELLS
 WITHIN 200' OF AN
 EXISTING WELL.



REFERENCES

AS-BUILT WELL SITE #1728
 SCALE: 1" = 200'

State Plane
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 N = 205,611
 E = 1,671,732

Geographic Nad 27
 LAT = 37° 33' 33.36"
 LONG = 82° 07' 56.26"

UTM NAD 83
 Zone 17 (Meter)

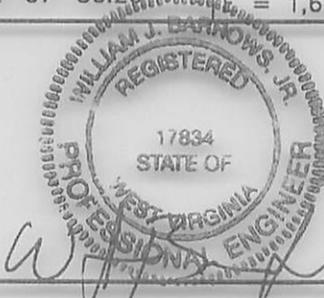
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B & B Engineering, LLC
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STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 CHARLESTON, WV.

DATE: 11/12/15
 OPERATOR'S WELL NO. 1728
 API WELL NO. 47059018860000
47 -- 59 -- 01886
 STATE COUNTY PERMIT

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 (IF "GAS") PRODUCTION OR STORAGE DEEP OR SHALLOW
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 WELL OPERATOR QUALITY NATURAL GAS, LLC DESIGNATED AGENT JAMES HILL
 ADDRESS P.O. BOX 480 ADDRESS HC 71 Rt. 4, BOX 87A
Allen, Kentucky 41601 WHARNCLIFFE, WV 25651

**PRESCRIPTION NOT TO BURY
PRODUCTION OR GATHERING LINES**

Pursuant to the Administrative Regulation 35CSR4-16.7 of the Office of Oil and Gas, Department of Environmental Protection, the undersigned states that:

(1) The undersigned is/are the owner(s) of record of

X the surface

or

_____ an interest in the surface of a tract of land described as follows:

Acres 18.0
Watershed Tug Fork of Big Sandy River _____
District Magnolia _____
County Mingo _____
Public road access Rt. 194 _____
Generally used farm name Daniel E. Deaton _____

(2) The undersigned realize (s) that a production or gathering pipeline is to be installed across the referenced surface tract in connection with the operation of the well identified below:

Well Operator Quality Natural Gas, LLC
Address P.O. Box 480
Allen, KY 41601
Telephone (606) 874-8041

Well: Api Permit No. 47-0590-18860000; (Well 1728)

(3) For sufficient and satisfactory reasons, the undersigned hereby prescribe that as far as the surface interest owned by the undersigned is/are concerned, the production or gathering pipeline need **not** be buried as follows:

X On any part of the surface tract identified above:

or

_____ On the following parts of the surface tract identified above:

From _____ To _____
From _____ To _____
From _____ To _____

(For execution by corporation,
partnership, etc.)

(For execution by natural persons)

Name: Daniel E. Deaton

By: *Daniel E. Deaton*
Signature

Date: 8.28-15

Its: _____
Signature

Date: _____

Received
Office of Oil & Gas
SEP. 10 2015

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

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

Be advised, you have the right to sample and analyze any water supply at your own expense.

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

| | |
|------------------------------------|---------------------------------|
| Contractor Name | See Note Below: |
| Well operator's private laboratory | |
| Well Operator | <u>Quality Natural Gas, LLC</u> |
| Address | <u>P.O. Box 480</u> |
| | <u>Allen, KY 41601</u> |
| Telephone | <u>(606) 874-8041</u> |

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site please indicate such.

NOTE:

There appears to be no water sources within 1000' of this proposed location; therefore, no water samples to analyze.

Received
Office of Oil & Gas
SEP 16 2015