



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 09, 2015

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-5901887, 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: 1729

Farm Name: DEATON, DANIEL II

API Well Number: 47-5901887

Permit Type: Re-Work

Date Issued: 12/09/2015

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.

CK# 11891
5901887W \$530.00

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 Mag-nolia Matewan
Operator ID County District Quadrangle

2) Operators Well Number 1729 3) Elevation: 1335.5'

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: 4893' Feet

7) Approximate fresh water strata depths: _____

8) Approximate salt water depths: None Expected

9) Approximate coal seam depths: 525', 700'

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

11) Describe proposed well work Re-work Existing Well, RUN 4 1/2" CASING, PERFORATE & GAS FRAC. DEVONIAN SHALE.

12) **CASING AND TUBING PROGRAM**

| TYPE | SPECIFICATIONS | | | FOOTAGE INTERVALS | | CEMENT |
|--------------|----------------|-------|---------------|---------------------------|---------------------------|-----------------|
| | Size | Grade | Weight per ft | For Drilling | Left in Well | |
| Conductor | 13 3/8" | L.S. | 37 | 32.10 | 32.10 | C.T.S. |
| Fresh Water | 9 5/8" | L.S. | 26 | 710' | 710' | C.T.S. |
| Coal | 9 5/8" | L.S. | 26 | 710' 732' | 710' 732' | C.T.S. |
| Intermediate | 7" | L.S. | 17 | 2645' 2527' | 2645' 2527' | C.T.S. |
| Production | 4 1/2" | J55 | 10.5 | 4893' | 4893' | 200' in 7" line |
| Tubing | | | | | | |
| Liners | | | | | | |

Packers: Kind _____
Sizes _____
Depths Set _____

Received

NOV 24 2015

5901887 W

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: _____
API #: 47-5901887

JS ✓

Farm name: DEATON, DANIEL II Operator Well No.: 1729

LOCATION: Elevation: 1,335' Quadrangle: MATEWAN

District: MAGNOLIA County: MINGO
Latitude: 8.879 Feet South of 37 Deg. 35 Min. 00 Sec.
Longitude 173 Feet West of 82 Deg. 07 Min. 30 Sec.

Company: Quality Natural Gas, LLC

| Address: | Casing & Tubing | Used in drilling | Left in well | Cement fill up Cu. Ft. |
|--|-----------------|------------------|--------------|------------------------|
| <u>P.O. Box 460</u> <u>Allen, KY 41601</u> | <u>13 3/8"</u> | <u>191</u> | <u>191</u> | <u>None</u> |
| Agent: <u>James Hill</u> | <u>9 5/8"</u> | <u>732</u> | <u>732</u> | <u>225 CTS</u> |
| Inspector: <u>Jeremy James</u> | <u>7"</u> | <u>2527</u> | <u>2527</u> | <u>541 CTS</u> |
| Date Permit Issued: <u>12/20/2007</u> | | | | |
| Date Well Work Commenced: <u>10/06/2009</u> | | | | |
| Date Well Work Completed: <u>10/14/2009</u> | | | | |
| Verbal Plugging: | | | | |
| Date Permission granted on: | | | | |
| Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/> | | | | |
| Total Vertical Depth (ft): <u>5,190'</u> | | | | |
| Total Measured Depth (ft): <u>5,190'</u> | | | | |
| Fresh Water Depth (ft.): <u>245'</u> | | | | |
| Salt Water Depth (ft.): | | | | |
| Is coal being mined in area (N/Y)? <u>NO</u> | | | | |
| Coal Depths (ft.): <u>NO</u> | | | | |
| Void(s) encountered (N/Y) Depth(s) <u>NO</u> | | | | |

RECEIVED
Office of Oil and Gas
SEP 17 2015
WV Department of Environmental Protection

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Brown Shale Pay zone depth (ft) _____
Gas: Initial open flow 3100 MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1700 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 290 psig (surface pressure) after 18 Hours

RECEIVED
Office of Oil and Gas

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

MAY 02 2013
Department of Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Tommy K...
Signature

4-30-13
Date

05/24/2013

59.01887

Were core samples taken? Yes _____ No Were cuttings caught during drilling? Yes _____ No

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____
 Density/audio/temperature/gamma ray

NOTE: IN THE AREA BELOW 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 THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

RECEIVED
 Office of Oil and Gas
 SEP 17 2015
 WV Department of
 Environmental Protection

NATURAL WELL

Plug Back Details Including Plug Type and Depth(s):

| Formations Encountered: | Top Depth | / | Bottom Depth |
|-------------------------|-----------|--------------|--------------------------------|
| HOLLOW FILL | 0-150 | SAND/SLATE | 2097-2147 BERA 3480-3570 |
| SAND | 150-324 | RED ROCK | 2147-2182 SLATE 3570-3660 |
| SAND/SLATE | 324-358 | SLATE/R.ROCK | 2182-2270 B.SHALE 3660-3708 |
| SAND | 358-390 | SAND/SLATE | 2270-2330 W.SHALE 3708-3820 |
| SAND/SLATE | 390-451 | SLATE | 2330-2420 B.SHALE 3820-3968 |
| SLATE | 451-488 | SAND | 2420-2460 W.SHALE 3968-4310 |
| SAND | 488-775 | SAND/SLATE | 2460-2520 B.SHALE 4310-4690 |
| SLATE/SAND | 775-840 | SLATE/R.ROCK | 2520-2580 W.SHALE 4690-4962 |
| SAND | 840-1121 | SAND/SLATE | 2580-2640 B.SHALE 4962-5110 |
| SLATE | 1121-1295 | DARK LIME | 2640-2688 W.SHALE 5110-5130 |
| SAND/SLATE | 1295-1335 | BIG LIME | 2688-2860 MARCELLOUS 5130-5185 |
| SAND | 1335-1455 | INJUN | 2860-2940 CONIFEROUS 5185-5190 |
| SAND/SLATE | 1455-1577 | WEIR | 2940-3180 |
| SAND | 1577-2070 | SLATE | 3180-3450 |
| SLATE/R.ROCK | 2070-2097 | COFFEE SHALE | 3450-3480 |

5901887W

WW2-A
Revised 8/02

CK# 1189100
3,300 / \$55000

1) Date: August 6, 2015
2) Operator's Well Number 1729
3) API Well No.: 47 - 0590 - 18870000
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, II *Waiver*
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:

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

X 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)
- X 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 *Jeremy Kenner*
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 **Office of Oil & Gas**
My Commission Expires 7-24-2017 **Received SEP 10 2015**

5901887W

5 (b)

Daniel E. Deaton, II
326 Little Oak Street
Williamson, WV 25661

Received
Office of Oil & Gas
SEP 1 0 2015

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 1729

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.

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

FOR EXECUTION BY A CORPORATION, ETC.

 Date 08-15
Signature
Daniel E. Deaton, II

Company Name _____
By _____
Its _____
Signature _____ Date _____

Received
Office of Oil & Gas
SEP 10 2015

Daniel E. Deaton, II

326 Little Oak Street
Williamson, WV 25661

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 1729 WV State Plane Coordinates N 205,478
E 1,673,717

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, II

By: 

Received
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, II | Kinzer Business Realty, LTD | 1/8 | 991697 |

SEE ASSIGNMENT

Well Operator: Quality Natural Gas, LLC / BY: Quality Natural Gas Management, LLC / Its: Manager

By: Jerry Kinzer

Its: Manager

Received
Office of Oil & Gas

SEP 10 2015

Kinzer Business Realty, Ltd.

Quality Natural Gas, LLC
P. O. Box 460
Allen, Kentucky 41601
Telephone #606-874-8041
Facsimile #606-874-9928
dlester@kinzerdrilling.com

December 4, 2015

West Virginia Department of
Environmental Protection
601 57th Street, S.E.
Charleston, West Virginia 25304

Attn.: Mr. Jeff McLaughlin

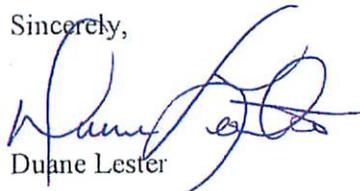
Re: West Virginia Well Applications
Quality Natural Gas, LLC
Mingo County, West Virginia

Dear Jeff:

As per our discussions yesterday regarding the relationship of the current Lessee and or owner of various leases and mineral properties, Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd., and that of current and future applications that may be pending a permit application by Quality Natural Gas, LLC, please be advised that these entities are currently owned and operated by the Kinzer Family. Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd., has designated Quality Natural Gas, LLC (as operator thereof) to permit, operate and maintain oil and all gas wells West Virginia at this time.

Should you have any questions, please feel free to contact me at your earliest convenience.

Sincerely,



Duane Lester

Designated Operator

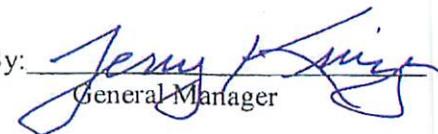
Quality Natural Gas, LLC
By: Quality Natural Gas Management, LLC
Its: Manger

By: 
General Manager

Consenting Party:

Quality Natural Gas Properties, Ltd.
Kinzer Business Realty, Ltd.

Its: General Partner

By: 
General Manager

STATE OF KENTUCKY

STATE AT LARGE

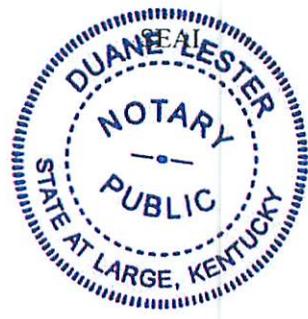
I, Duane Hester, a Notary Public of said County and State aforesaid, do certify that Jerry Kinzer, Manager of **QUALITY NATURAL GAS, LLC**, whose name is signed to the within writing has this day acknowledged the same before me in said county.

My commission expires 7.24.2017

Given under my hand this 21 day of December, 2015

Duane Hester
Notary Public

492274
ID Number



STATE OF KENTUCKY

STATE AT LARGE

I, Duane Hester, a Notary Public of said County and State aforesaid, do certify that Jerry Kinzer, General Manager of **Kinzer Business Realty, Ltd., and Quality Natural Gas Properties, Ltd.**, whose name is signed to the within writing has this day acknowledged the same before me in said county.

My Commission Expires: 7.24.2017

Given under my hand this 21 day of December, 2015

Duane Hester
Notary Public

492274
ID Number



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 1335.5' County: Mingo District: Magnolia

Description of anticipated Pit Waste: NO PIT

Will a synthetic liner be used in the pit? _____

WILL USE TANKS TO
CONTAIN ANY WELL EFFLUENT.
gwm

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Swabbing
- Workover
- Plugging
- 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 *Terry Kinzer*

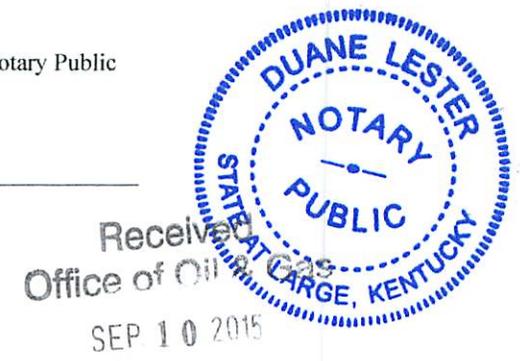
Company Official (Typed Name) Terry Kinzer and/or Jerry Kinzer

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

Subscribed and sworn before me this 25 day of August, 20 15

Duane Lester Notary Public

My Commission Expires 7.24.2017



LEGEND

Property Boundary

Road

Existing Fence

Planned Fence

Stream

Open Ditch

Rock

North

Buildings

Water wells

Drill site

Diversion

Spring

Wet Spot

Drain Pipe with size in inches

Waterway

Cross Drain

Artificial Filter Strip

Pit: cut walls

Pit: compacted fill walls

Area for Land Application of Pit Waste

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.

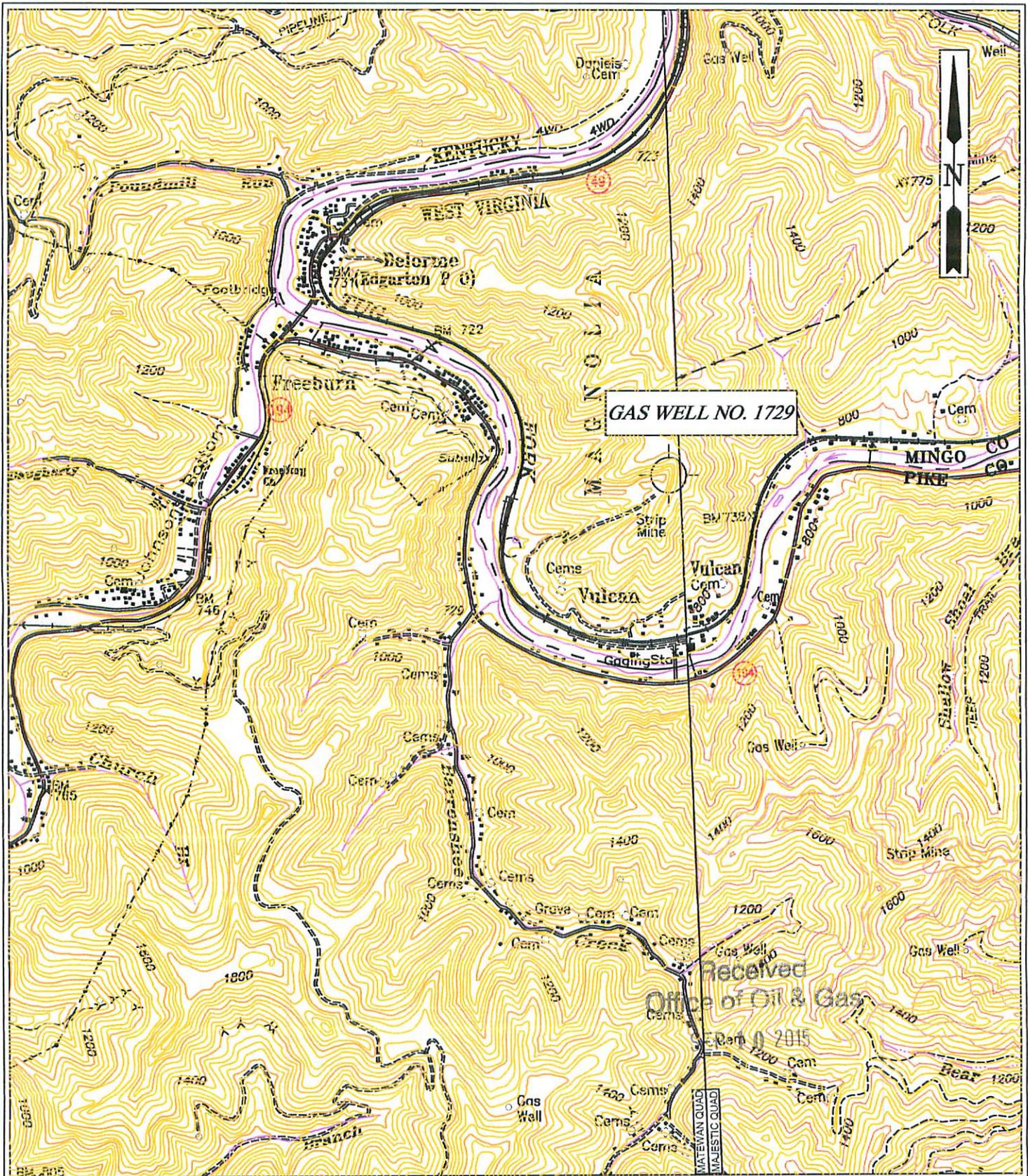
Plan Approved by:

Comments: _____

Title Inspector Date: 8-21-15

Field Reviewed? () Yes () No

Received
Office of Oil & Gas
SEP 10 2015

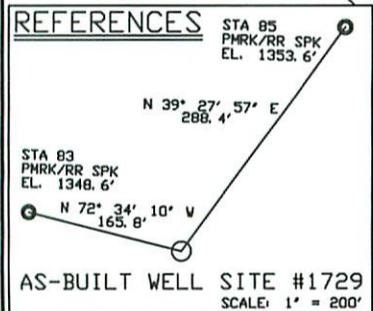
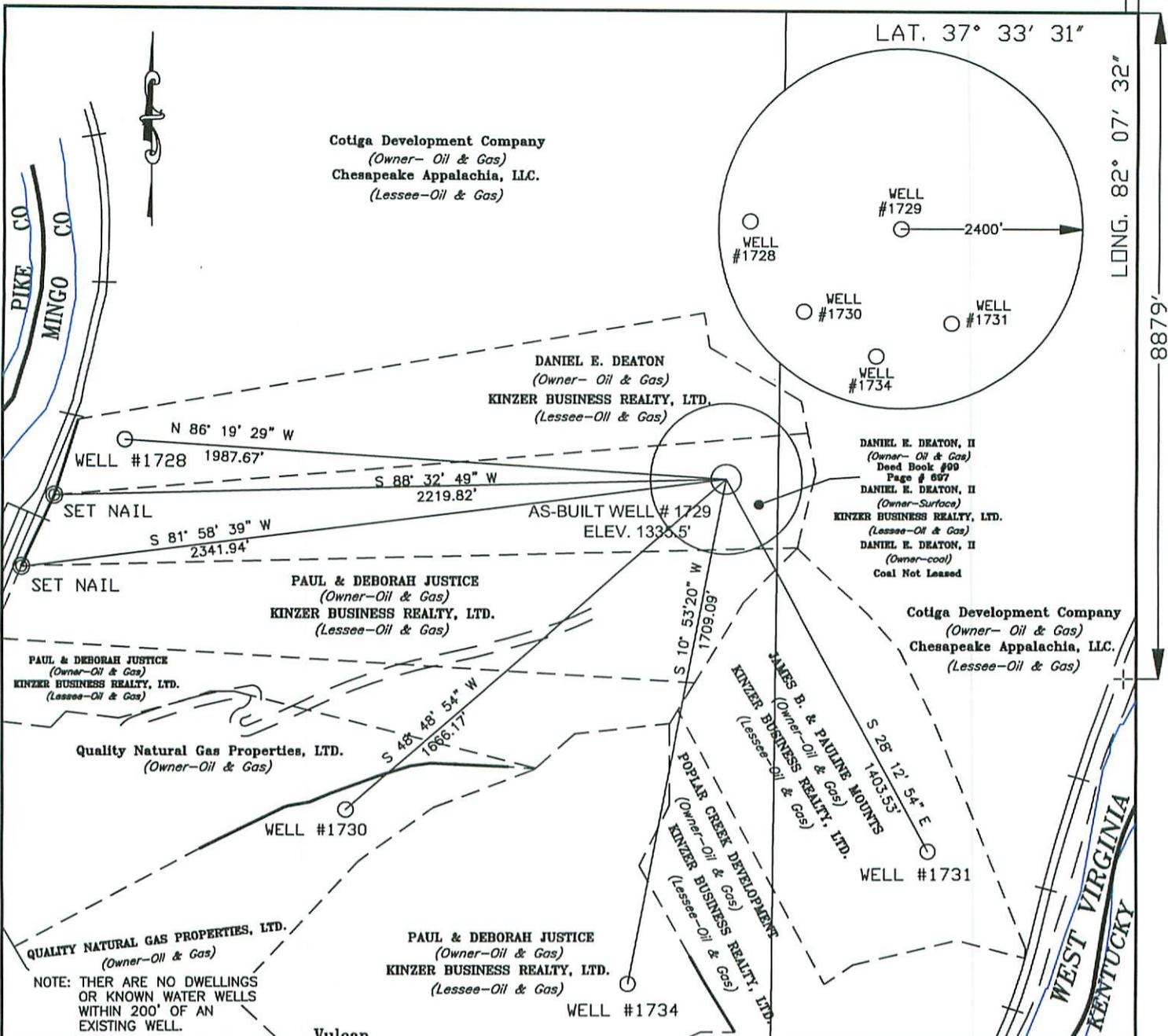


B & B Engineering, LLC
 P.O. Box 1596
 Prestonsburg, KY 41653
 Phone: (606) 285-3400

QUALITY NATURAL GAS, LLC.
LOCATION MAP
 PROPOSED GAS WELL NO. 1729

QUAD: MATEWAN
 SCALE: 1" = 2000'
 DATE: 08/25/2015
 FILE NAME: WWVIC1729.DWG

5901887W



Vulcan

State Plane
WV South Nad 27
N = 205,478
E = 1,673,717

Geographic Nad 27
LAT = 37° 33' 31"
LONG = 82° 07' 32"

UTM NAD 83
Zone 17 (Meter)

N = 4,157,478
E = 400,598

State Plane
WV South NAD 83
N = 205520
E = 1,642,267

LEGEND

- + DENOTES LOCATION WELL ON UNITED STATES TOPOGRAPHICAL MAPS
- PROPOSED WELL
- PUG OFF WELL
- ⊙ EXISTING WELL
- ⊙ SURVEY STATION
- TREE
- ══ ROADS
- ══ RAILROAD
- ══ STREAM, DRAIN, CREEK

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Office of Oil & Gas
SEP 10 2015

DRAWING No. WVA1729.DWG

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1 IN 2,500'

PROVEN SOURCE OF ELEVATION USGS B. M. MONUMENT # 722

WFB

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: 07/28/15
OPERATOR'S WELL NO. 1729
API WELL NO. 47059018870000

47 -- 59 -- 01887
STATE COUNTY PERMIT

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

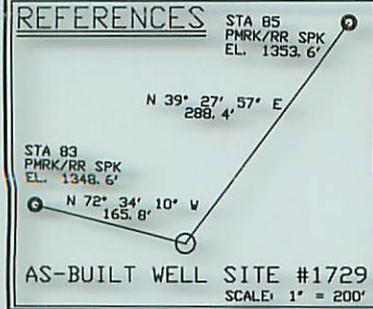
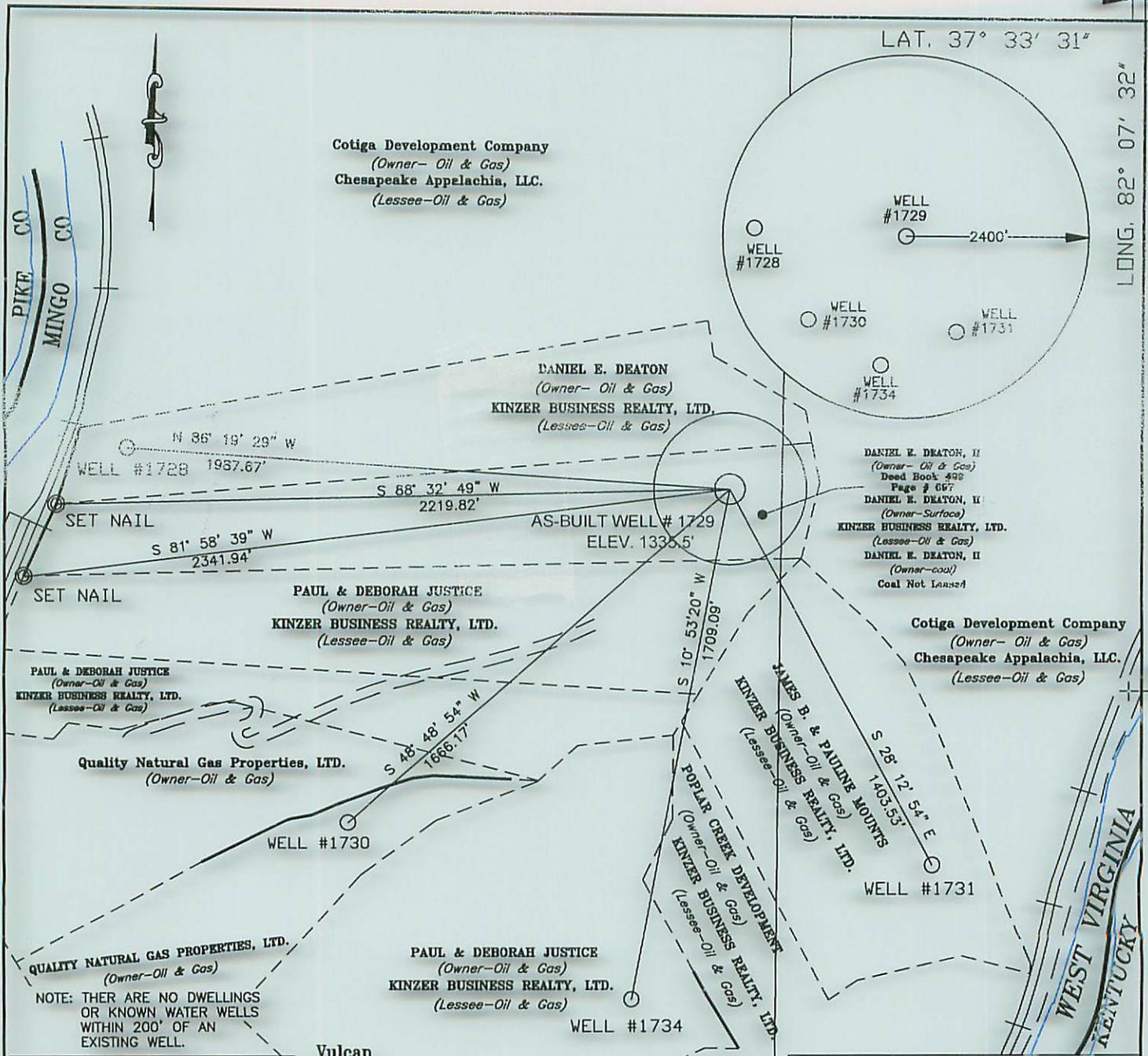
LOCATION: ELEVATION 1335' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN

SURFACE OWNER DANIEL E. DEATON, II ACREAGE +/- 18
OIL & GAS ROYALTY OWNER DANIEL E. DEATON, II LEASE ACREAGE +/- 18
LEASE No. 848

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 4893'
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



Vulcan

State Plane
WV South Nad 27
N = 205,478
E = 1,673,717

Geographic Nad 27
LAT = 37° 33' 31"
LONG = 82° 07' 32"

UTM NAD 83
Zone 17 (Meter)

N = 4,157,478
E = 400,598

State Plane
WV South NAD 83

N = 205520
E = 1,642,267

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. WVA1729.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: 07/28/15
OPERATOR'S WELL NO. 1729
API WELL NO. 47059018870000

47 -- 59 -- 01887W
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF 'GAS') PRODUCTION OR STORAGE DEEP OR SHALLOW

LOCATION: ELEVATION 1335' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN

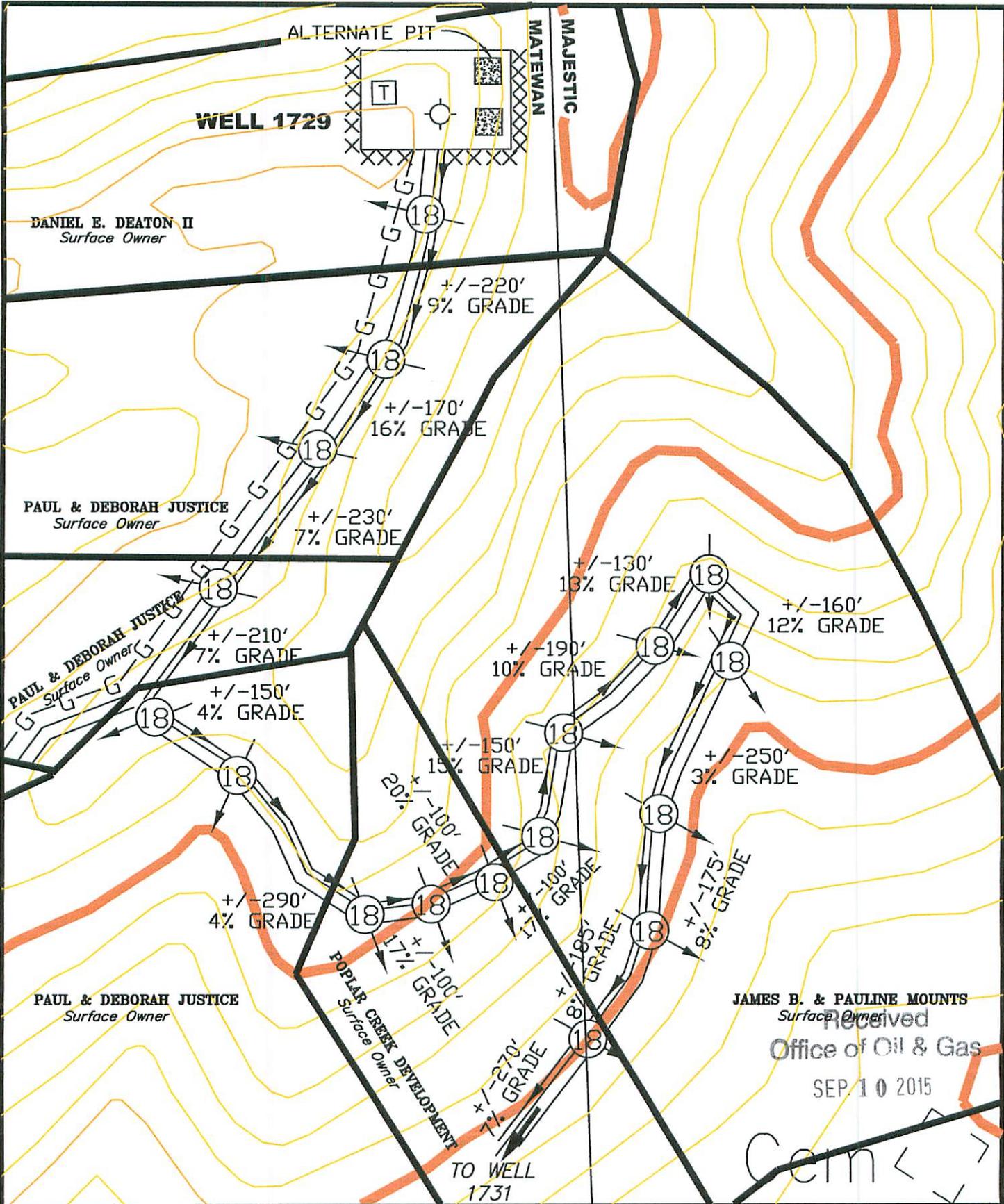
SURFACE OWNER DANIEL E. DEATON, II
OIL & GAS ROYALTY OWNER DANIEL E. DEATON, II ACREAGE +/- 18
LEASE ACREAGE +/- 18
LEASE No. 848

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 4893'

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



Received
Office of Oil & Gas
SEP 10 2015



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) 285-3400

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

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 848
DATE: 08-25-2015
SCALE: 1" = 200'
DRAWING FILE: WVAREC1729.DWG

**WELL SITE RECLAMATION PLAN
GAS WELL No. 1729**

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