



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: 47-5901888, 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: 1730
Farm Name: MARCUM, JEROME
API Well Number: 47-5901888
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# 1189/
\$550⁰⁰

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	Mag-nolia	Matewan
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Operator ID County District Quadrangle

2) Operators Well Number 1730 3) Elevation: 1023.5'

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, PERFORATE & NITROGEN FRAC IN DEVONIAN SHALE.

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	32.10	33.10	C.T.S.
Fresh Water	9 5/8"	L.S.	26	710'	710'	C.T.S.
Coal	9 5/8"	L.S.	26	710'	710'	C.T.S.
Intermediate	7"	L.S.	17	2615'	2615'	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

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

Well Operator's Report of Well Work

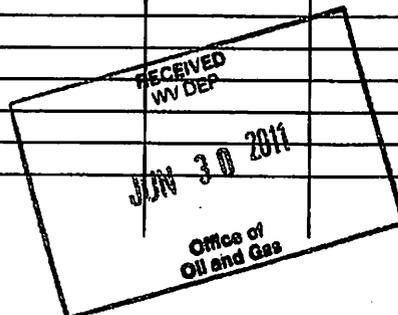
Farm name: JEROME MARCUM Operator Well NO.: 1730

LOCATION: Elevation: 882' Quadrangle: MATEWAN

District: MAGNOLIA County: MINGO
Latitude: 10.023 Feet South of 37 Deg. 35 Min. 00 Sec.
Longitude 1.411 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>153</u>
Agent: <u>JAMES HILL</u>	<u>7"</u>	<u>2358'</u>	<u>2358'</u>	<u>425</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>09/28/09</u>				
Date Well Work Completed: <u>10/03/09</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <u>YES</u> Cable Rig				
Total Depth (feet): <u>5,022'</u>				
Fresh Water Depth (ft.): <u>444'</u>				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>206-208'</u>				



OPEN FLOW DATA

Producing formation Shale, Shale/Berea Pay zone depth (ft) SEE ATTACHED
 Gas: Initial open flow 18.26 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

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

Signed: [Signature]
Date: June 27, 2011

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

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	29	SURFACE			GAS CHECK @ 2390' - 8 7/8" TD/NO GAS
29	50	SAND			GAS CHECK @ 2680' - INJUN/SMELL
50	144	SAND/SLATE			GAS CHECK @ 3252' - COFFEE/SMELL
144	206	SAND			GAS CHECK @ 3554' - BROWN/SMELL
206	208	COAL			
208	270	SAND			
270	416	SAND/SLATE			
416	478	SAND			
478	512	SALTE			
512	631	SAND/SLATE			
631	818	SAND			
818	824	SAND/SLATE			
824	947	SAND			
947	991	SLATE			
991	1010	SAND/SLATE			
1010	1150	SAND			
1150	1205	SLATE			
1205	1217	SAND			
1217	1293	SAND/SLATE			
1293	1750	SAND			
1750	1800	SLATE/SAND			
1800	1850	SLARE/RED ROCK			
1850	1900	RED ROCK			
1900	1930	SAND/SLATE			
1930	1990	RED ROCK			
1990	2110	SAND/SLATE			
2110	2200	SAND			
2200	2230	SAND/SLATE			
2230	2300	SAND			
2300	2340	SAND/SLATE			
2340	2412	DARK LIME			
2412	2656	BIG LIME			
2656	2716	INJUN			
2716	2930	WEIR			
2930	3228	SHALE			
3228	3290	COFFEE SHALE			
3290	3390	BEREA			
3390	3530	GREY SHALE			
3530	3590	BROWN SHALE			
3590	4300	WHITE SHALE			
4300	4350	BROWN SHALE			
4350	4460	WHITE SHALE			
4460	4488	BROWN SHALE			
4488	4860	WHITE SHALE			
4860	4098	BROWN SHALE			
4098	5030	MARCELLOUS			
5030	5042	CORNIFEROUS			

RECEIVED
Office of Oil and Gas

SEP 17 2015

WV Department of
Environmental Protection

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

WELL NAME & NO. QUALITY NATURAL GAS, LLC, #1730
API # 47-5901888
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 DEP
JUN 30 2011
Office of
Oil and Gas

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

CX# 11891
3) 200.00

1) Date: August 6, 2015
2) Operator's Well Number 1730

3) API Well No.: 47 - 059 - 01888
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 Jerome Marcum *WALIVER*
Address 10 Deskins Drive
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: *Jerry King*
Its: Manager
Address P.O. Box 480
Allen, KY 41601
Telephone (606) 874-8041

Received
Office of Oil & Gas
SEP 10 2015

Subscribed and sworn before me this 06 day of August, 2015

Duane Lester Notary Public
My Commission Expires 7.24.2017

5901888W

5 (b)

Quality Natural Gas Properties, LTD.
P.O. Box 480
Allen, KY 41601

Received
Office of Oil & Gas
SEP 10 2015

WW2-A

1) Date: August 6, 2015

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County	<u>Mingo</u>	Operator	<u>Quality Natural Gas, LLC</u>
		Operator well number	<u>1730</u>

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas OR District Oil and Gas Inspector
Department of Environmental Protection
601 57th Street
Charleston, WV 25304
(304) 926-0499

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIFTEEN (15) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

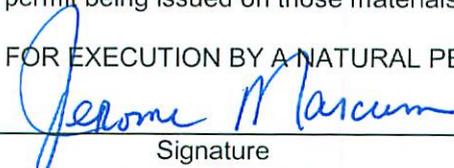
List of Water Testing Laboratories. The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ___ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON



Signature
Jerome Marcum

Date _____

FOR EXECUTION BY A CORPORATION, ETC.

Company Name _____

By _____

Its _____

Received
Office of Oil & Gas
SEP 10 2015

COAL OPERATOR, OWNER, OR LESSEE WAIVER

County Mingo
Operator Quality Natural Gas, LLC Operator's Well Number 1730

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.

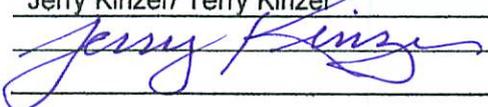
WAIVER

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

Signature Date

FOR EXECUTION BY A CORPORATION, ETC.

Company Name Quality Natural Gas Properties, LTD
By Jerry Kinzer/ Terry Kinzer
Its 
Signature Date

Received
Office of Oil & Gas
SEP 10 2015

5901888W

Quality Natural Gas Properties, LTD.

P.O. Box 480
Allen, KY 41601

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 1730 WV State Plane Coordinates N 204,414
E 1,672,459

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: _____

Quality Natural Gas Properties, LTD.

By: 

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@kinzdrilling.com

December 4, 2015

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

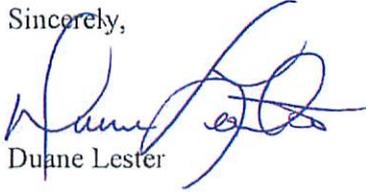
Attn.: Mr. Jeff McLaughlin

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 Lester, 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 4 day of December, 2015

Duane Lester
Notary Public

492274
ID Number



STATE OF KENTUCKY

STATE AT LARGE

I, Duane Lester, 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: 7-27-2017

Given under my hand this 4 day of December, 2015

Duane Lester
Notary Public

492274
ID Number



Form WW-2A-1
(8/02)

Operator's Well Number 1730

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
Donald Prater	Quality Natural Gas Properties, LTD	100%	407/276

SEE ATTACHED
ASSIGNMENT

RECEIVED
Office of Oil and Gas
DEC 4 2015
WV Department of
Environmental Protection

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

By: *Jerry Ferguson*

Its: Manager

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 1023.5' County: Mingo District: Magnolia

Description of anticipated Pit Waste: _____

Will a synthetic liner be used in the pit? NO PIT

ALL WELL EFFLUENT WILL BE
CONTAINED IN TANKS & DISPOSED
OF PROPERLY. gmm

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 Jerry Kinzer

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

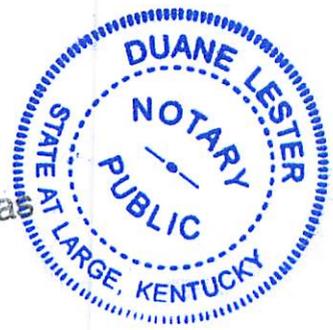
Company Official Title Manager / Quality Natural Gas Management, LLC / Manager of Quality Natural Gas, LLC

Subscribed and sworn before me this 25 day of August, 2015

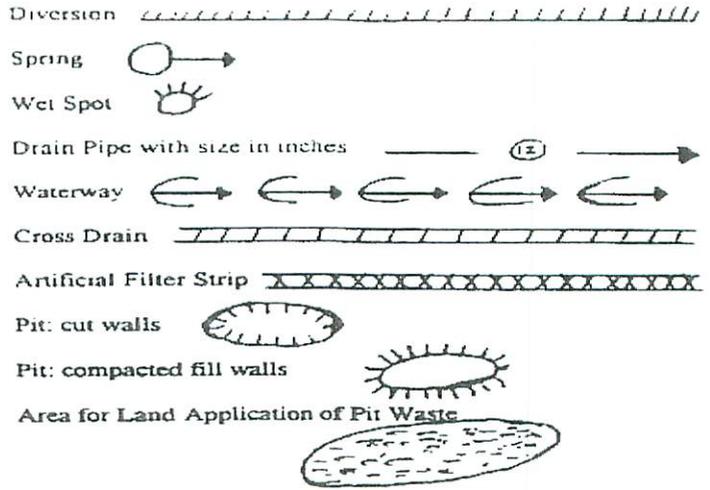
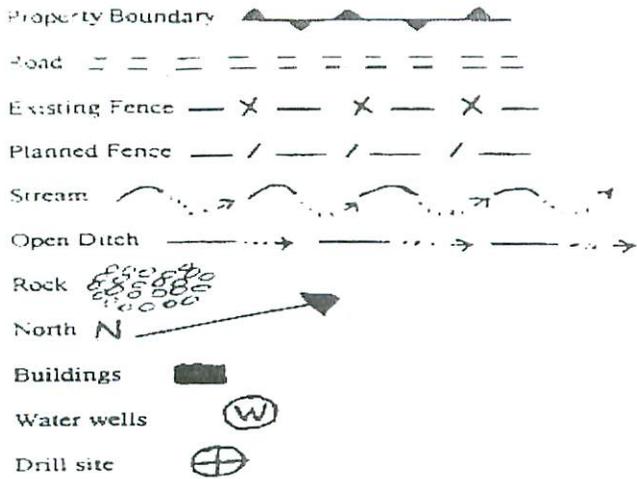
[Signature] Notary Public

My Commission Expires 4-27-2017

Received
Office of Oil & Gas
5-2-10 2015



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.

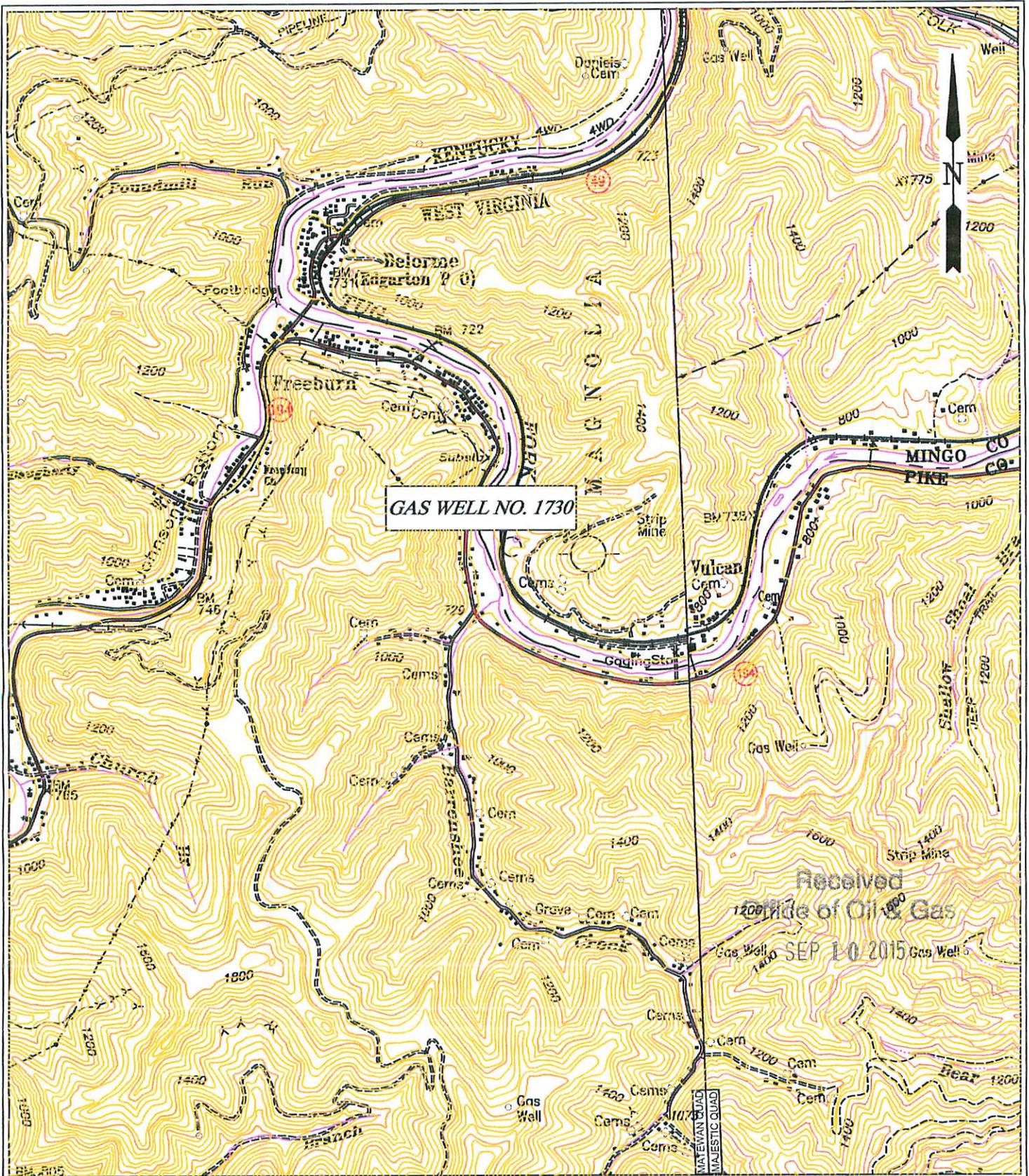
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 
 Comments: _____

Title Inspector Date: 8-21-15

Field Reviewed? () Yes () No

Received
 Office of Oil & Gas
 SEP 10 2015



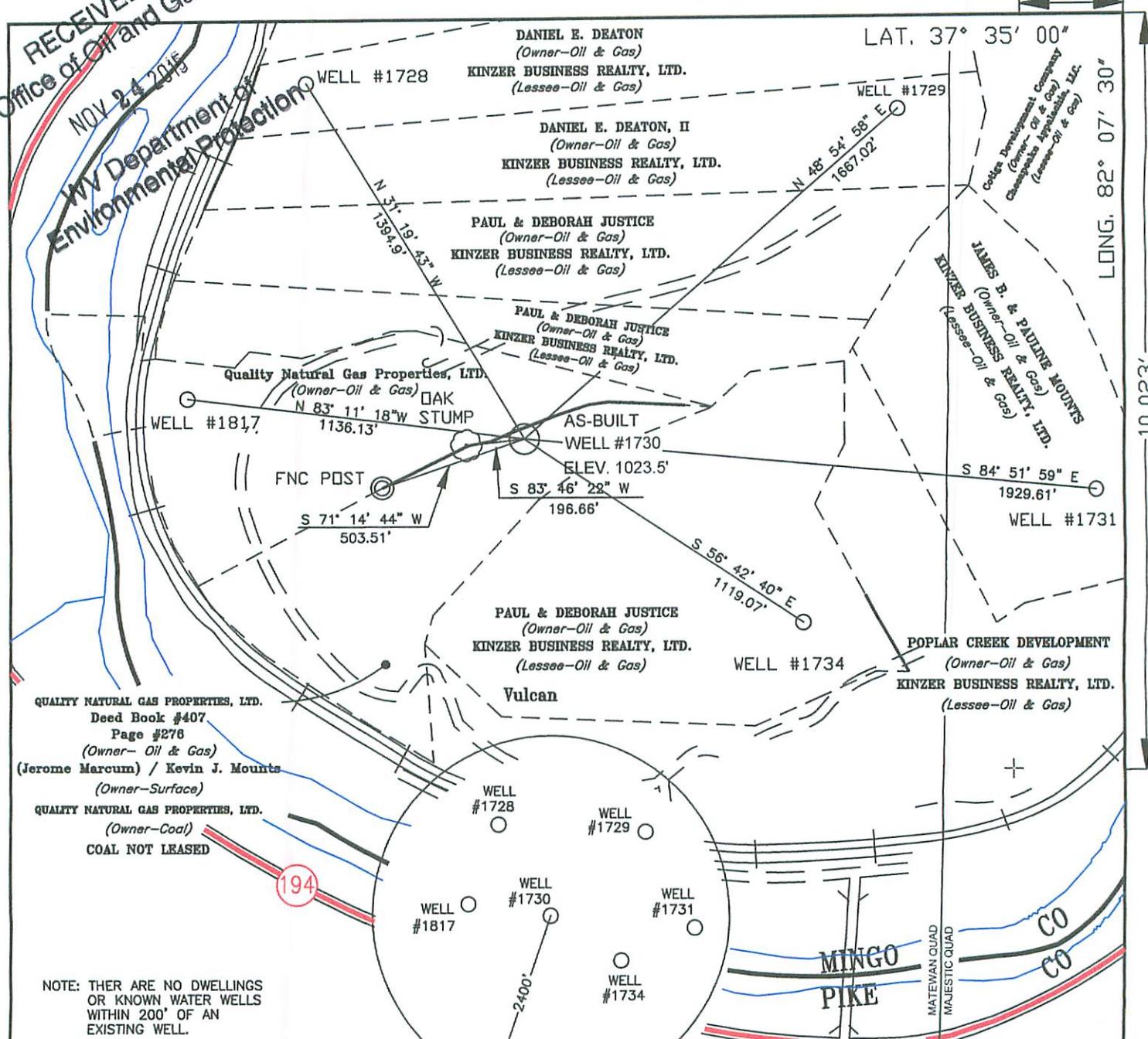
B & B Engineering, LLC
 P.O. Box 1596
 Prestonsburg, KY 41653
 Phone: (606) 285-3400

QUALITY NATURAL GAS, LLC.
LOCATION MAP
 PROPOSED GAS WELL NO. 1730

QUAD: MATEWAN
 SCALE: 1" = 2000'
 DATE: 08/25/2015
 FILE NAME: WWVIC1730.DWG

RECEIVED
Office of Oil and Gas
NOV 24 2015
WV Department of Environmental Protection

5901888W



1411'

LAT. 37° 35' 00"

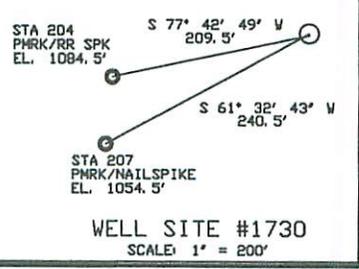
LONG. 82° 07' 30"

10,023'

QUALITY NATURAL GAS PROPERTIES, LTD.
Deed Book #407
Page #276
(Owner- Oil & Gas)
(Jerome Marcum) / Kevin J. Mounts
(Owner-Surface)
QUALITY NATURAL GAS PROPERTIES, LTD.
(Owner-COAL)
COAL NOT LEASED

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

REFERENCES



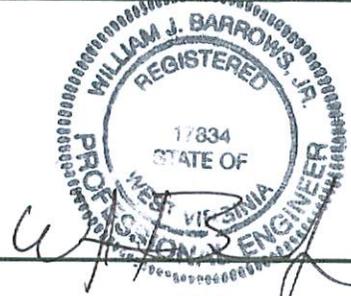
State Plane
WV South Nad 27
N = 204,414
E = 1,672,459
Geographic Nad 27
LAT = 37° 33' 21.60"
LONG = 82° 07' 47.06"

UTM NAD 83
Zone 17 (Meter)
N = 4,157,154
E = 400,215
State Plane
WV South NAD 83
N = 204,456
E = 1,641,010

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. WVA1730.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. 1730
API WELL NO. 47059018880000

47 -- 059 -- 01888W
STATE COUNTY PERMIT

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

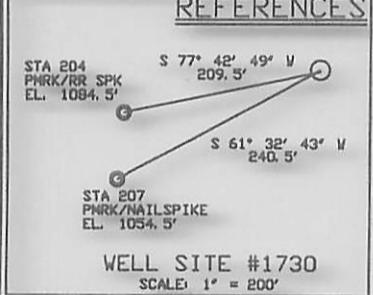
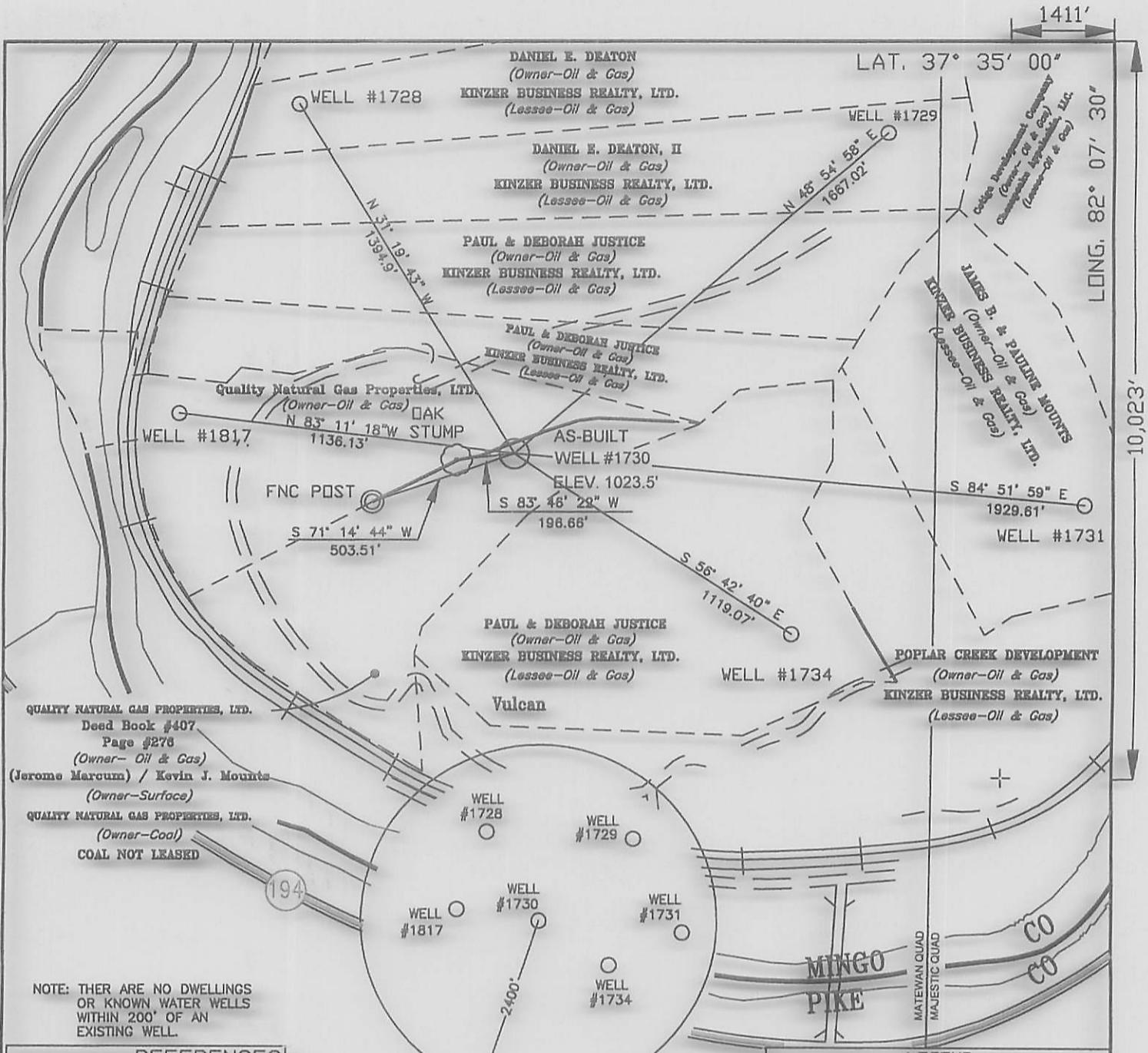
LOCATION: ELEVATION 1132' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN

SURFACE OWNER JEROME MARCUM ACREAGE +/- 14
OIL & GAS ROYALTY OWNER QUALITY NATURAL GAS PROPERTIES, LTD. LEASE ACREAGE +/- 14
LEASE No. 894

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 5000'
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



UTM NAD 83
Zone 17 (Meter)
N = 4,157,154
E = 400,215

State Plane
WV South NAD 83
N = 204,456
E = 1,641,010

State Plane
WV South Nad 27
N = 204,414
E = 1,672,459

Geographic Nad 27
LAT = 37° 33' 21.60"
LONG = 82° 07' 47.06"

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. WVA1730.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. 1730
API WELL NO. 47059018880000

47 -- 059 -- 01888W
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1132' WATER SHED TUG FORK of BIG SANDY RIVER
DISTRICT MAGNOLIA COUNTY MINGO
QUADRANGLE MATEWAN

SURFACE OWNER JEROME MARCUM ACREAGE +/- 14
OIL & GAS ROYALTY OWNER QUALITY NATURAL GAS PROPERTIES, LTD. LEASE ACREAGE +/- 14
LEASE No. 894

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 5000'
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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FORM WW-75.
(REV. 9/94)

**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 14.58
Watershed Tug Fork
District Magnolia
County Mingo
Public road access Rt. 194
Generally used farm name Jerome Marcum

(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- 59 -47059018880000; (Well 1730)

(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: Jerome Marcum

By: Jerome Marcum ^{w/permission} Signature Date: 9-8-15

Its: _____ Signature Date: _____

Received
Office of Oil & Gas
SEP 10 2015

5901888 W

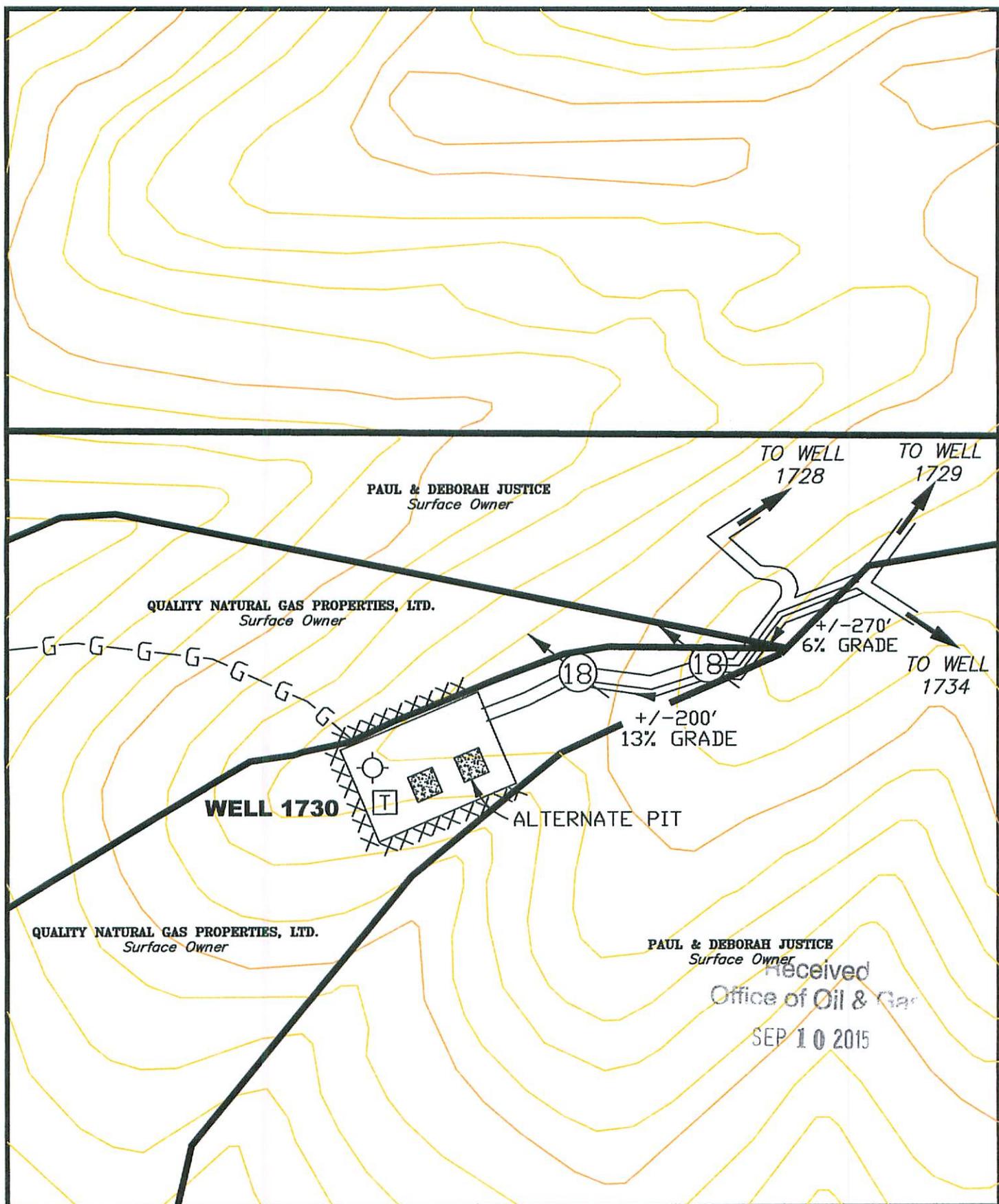


EXHIBIT MAP
 SURFACE PROPERTY LINES ARE
 APPROXIMATE; NOT TO BE USED
 FOR TRANSFER PURPOSES

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			

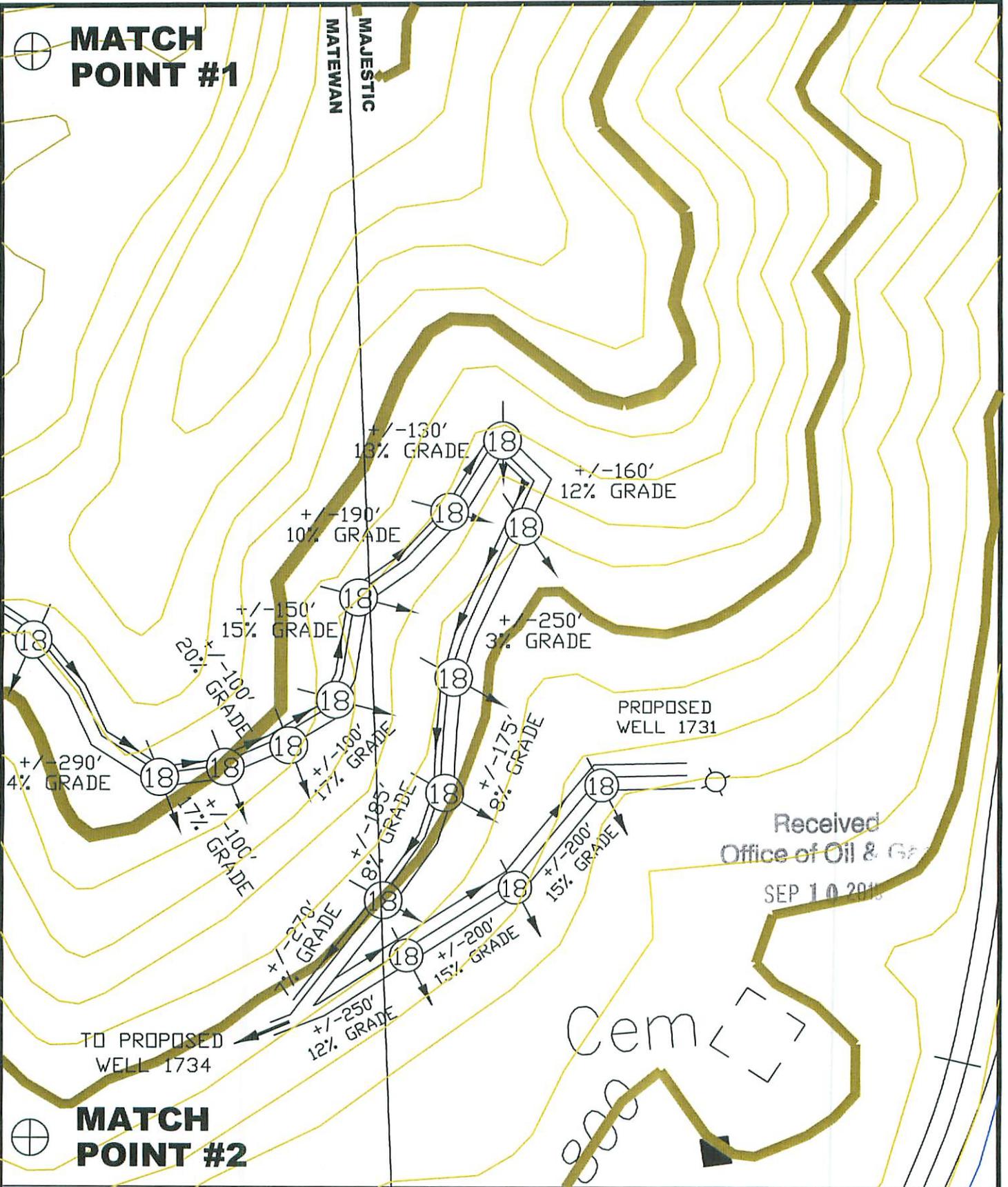
B & B Engineering, LLC
 P.O. Box 1596
 Prestonsburg, KY 41653
 Phone: (606) 285-3400

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

QUADRANGLE: MATEWAN
 COUNTY: MINGO
 LEASE #: 894
 DATE: 08/25/2015
 SCALE: 1" = 200'
 DRAWING FILE: WVAREC1730.DWG

WELL SITE RECLAMATION PLAN
GAS WELL No. 1730
QUALITY NATURAL GAS, LLC.
 P.O. Box 480
 Allen, Kentucky 41601

5901888W



SHEET 2 OF 2



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

WELL SITE RECLAMATION PLAN GAS WELL No. ????

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

QUADRANGLE: MATEWAN
COUNTY: MINGO
LEASE #: 894
DATE: 11/03/2007
SCALE: 1" = 200'
DRAWING FILE: WVAREC1730_2DF2.DWG

Received
Office of Oil & Gas
SEP 10 2010