



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

February 04, 2014

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-1706452, issued to KEY OIL COMPANY, 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: G.P. BARTLETT HEIRS NO. 3
Farm Name: SHULTZ, RICHARD D. & VICKIE
API Well Number: 47-1706452
Permit Type: Vertical Well
Date Issued: 02/04/2014

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 within 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.

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

1) Well Operator KEY OIL COMPANY

306347	DODD-RIDGE	NEW MILTON	NEW MILTON
Operator ID	County	District	Quadrangle

2) Operator's Well Number: BARTLETT #3 3) Elevation: 1270'

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

5) Proposed Target Formation(s): *SEE BELOW Proposed Target Depth: 5800'
 6) Proposed Total Depth: 5800' Feet Formation at Proposed Total Depth: ALEXANDER
 7) Approximate fresh water strata depths: 130'
 8) Approximate salt water depths: 1432'

9) Approximate coal seam depths: NONE REPORTED ON OFFSET DRILLER'S LOGS

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

11) Describe proposed well work in detail DRILL, STIMULATE, PRODUCE

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	11 3/4	ERW	42	35	0	
Fresh Water	9 5/8	ERW	29	168	168	70 SKS. <u>CTS</u>
Coal						
Intermediate	7	ERW	17	1500	1500	220 SKS. <u>CTS</u>
Production	4 1/2	J-55	10.5		5650	300 SKS.
Tubing						
Liners						

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Office of Oil and Gas
JAN 17 2014
WV Department of
Environmental Protection

Packers: Kind _____
 Sizes _____
 Depths Set _____

*DCN
11-7-2013*

*WARREN, BALLTOWN, RILEY & ALEXANDER

1706452

1.) Date: August 13, 2013
2.) Operator's Well Number BARTLETT #3
State Count Permit
3.) API Well No.: 47- 017 -

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

OK
30208
05200

4) Surface Owner(s) to be served:
(a) Name RICHARD SHULTZ ✓
Address 102 MARIE STREET
WEST UNION, WV 26456
(b) Name _____
Address _____
(c) Name _____
Address _____
5) (a) Coal Operator
Name NONE
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____
6) Inspector DOUGLAS NEWLON
Address 4060 DUTCHMAN ROAD
MACFARLAN, WV 26148
Telephone 304-932-8049

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 KEY OIL COMPANY
By: [Signature]
Its: PRESIDENT
Address 22 GARTON PLAZA
WESTON, WV 26452
Telephone 304-269-7102

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Office of Oil and Gas
JAN 17 2014
WV Department of
Environmental Protection

Subscribed and sworn before me this 13th day of August, 2013

[Signature: Kerri Lipscomb]

Notary Public

My Commission Expires NOVEMBER 16, 2022

Oil and Gas Privacy Notice

**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
Fern Bartlett, et al	George Jackson	1/8	60/27
George Jackson	David C. Nichols, II	1/8	Will Book 23/375
David C. Nichols, II	Key Oil Company	1/8	261/258

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

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Office of Oil and Gas

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.



Well Operator: KEY OIL COMPANY
By:Its: PRESIDENT

02/07/2014

WV Department of Environmental Protection

WW-2B1

Well No. G. P. Bartlett Heirs No. 3

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:

<u> x </u>	Contractor Name	<u>Reliance Laboratories, Inc.</u>
<u> </u>	Well operator's private laboratory	
	Well Operator	<u>Key Oil Company</u>
	Address	<u>22 Garton Plaza</u>
		<u>Weston, WV 26452</u>
	Telephone	<u>(304) 269-7102</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.

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****THERE APPEARS TO BE NO KNOWN WATER WELLS OR SPRINGS WITHIN 1000 FEET OF THE PROPOSED WELL LOCATION****

IAN 17 2014

WV Department of
Environmental Protection

STATE OF WEST VIRGINIA
DEPARTMENT 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 Key Oil Company OP Code _____

Watershed Tributary of Toms Fork Quadrangle New Milton 7.5'

Elevation 1,270' County Doddridge District New Milton

Description of anticipated Pit Waste: Drill Water, Frac Blow Back & Various Formation Cuttings.

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

Will a synthetic liner be used in the pit? _____ yes _____. If so, what ml.? 6 mil. 20 MIL

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 _____)

DCN
11-7-2013

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. _____
-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Leave in pit

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

-Landfill or offsite name/permit number? _____

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

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

Company Official Signature _____

Company Official (Typed Name) Jan Chapman

Company Official Title President

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Office of Oil and Gas

Subscribed and sworn before me this 13th day of August, 20 13 JAN 17 2014

Notary Public

My commission expires November 16, 2022



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 1.1± Prevegetation pH 5.5
 Lime 3 Tons/acre or to correct to pH 5.5
 Fertilizer (10-20-20 or equivalent) 1/3 TON lbs/acre (500 lbs minimum)
 Mulch HAY 2 Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
KY-31		40	KY-31		40
ALSIKE CLOVER		5	ALSIKE CLOVER		5
ANNUAL RYE		15	ANNUAL RYE		15

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Douglas Newell RECEIVED
 Comments: send r Mulch to Wv Dep regulations Office of Oil and Gas
IAN 17 2014

Title: Oil & Gas inspector Date: 11-7-2013 WV Department of Environmental Protection
 Field Reviewed? Yes No

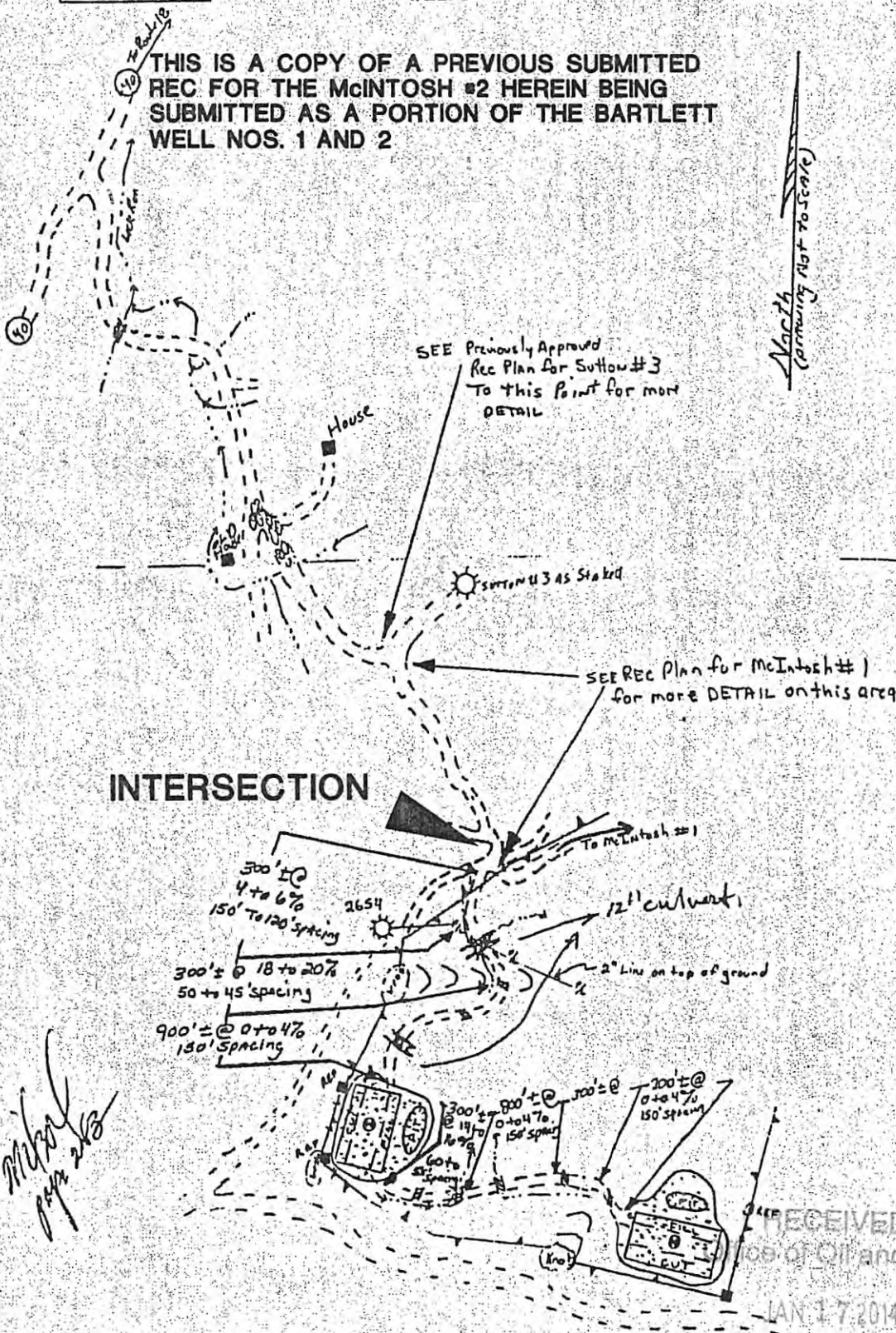
McINTOSH LEASE

Form WW-9

WELLS #2 & #3

page 5 of 7

THIS IS A COPY OF A PREVIOUS SUBMITTED REC FOR THE McINTOSH #2 HEREIN BEING SUBMITTED AS A PORTION OF THE BARTLETT WELL NOS. 1 AND 2



Handwritten signature and date: 1/17/14

SLS

SMITH LAND SURVEYING
P.O. BOX 150 GLENVILLE, WV. 26351

PHONE (304) 462-5634 / FAX 462-5656

DRAWN BY: *J.S.* DATE: 3-18-98 FILE NO.: 3882

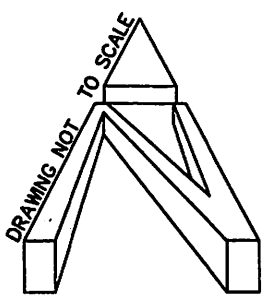
02/07/2014

WW9

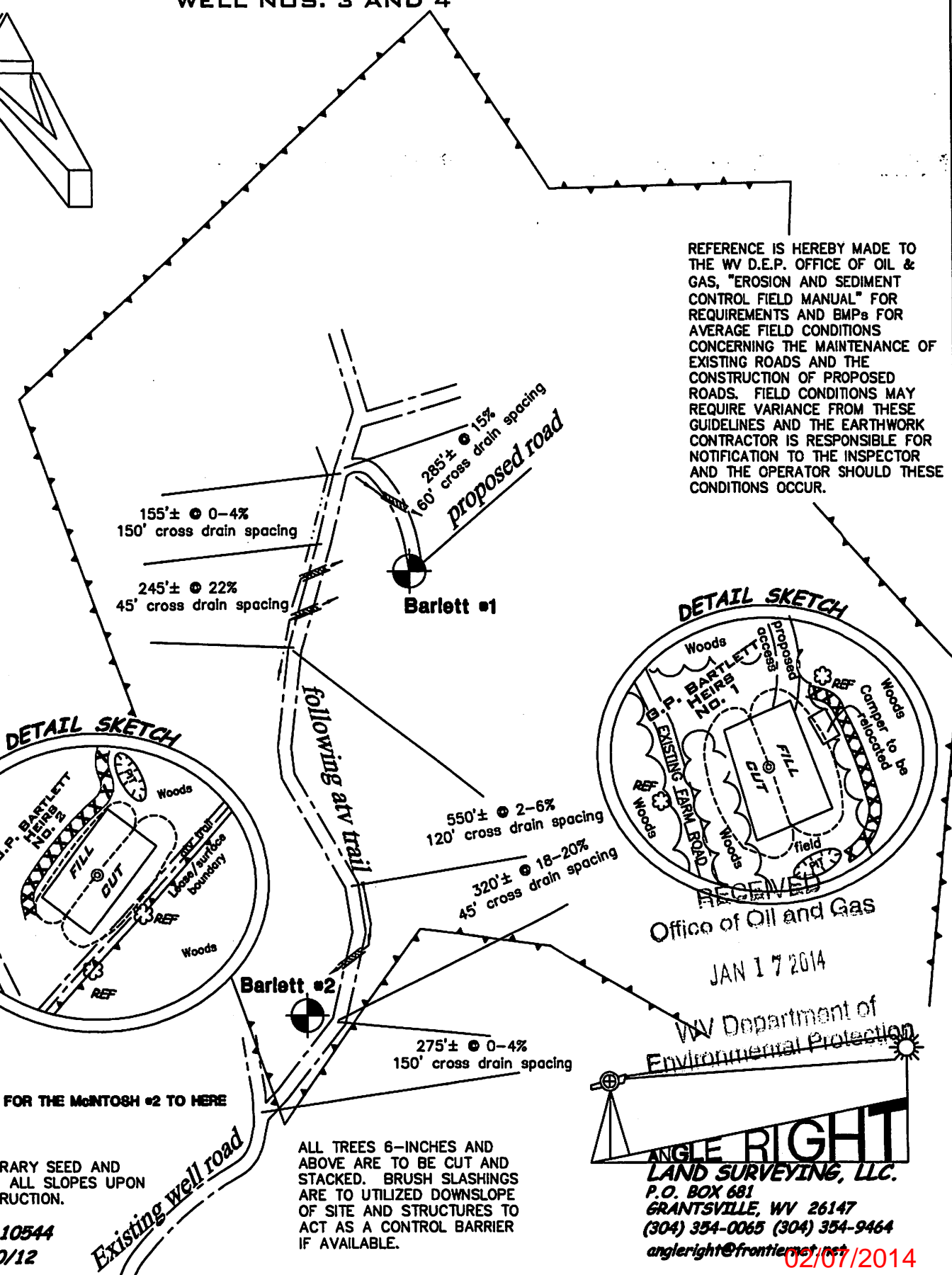
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BARTLETT WELL NOS 1 AND 2

THIS IS A COPY OF A PREVIOUS SUBMITTED REC FOR THE BARTLETT #1 & #2 HEREIN BEING SUBMITTED AS A PORTION OF THE BARTLETT WELL NOS. 3 AND 4



REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.



DETAIL SKETCH

DETAIL SKETCH

Office of Oil and Gas

JAN 17 2014

WV Department of Environmental Protection

SEE REC FOR THE McINTOSH #2 TO HERE

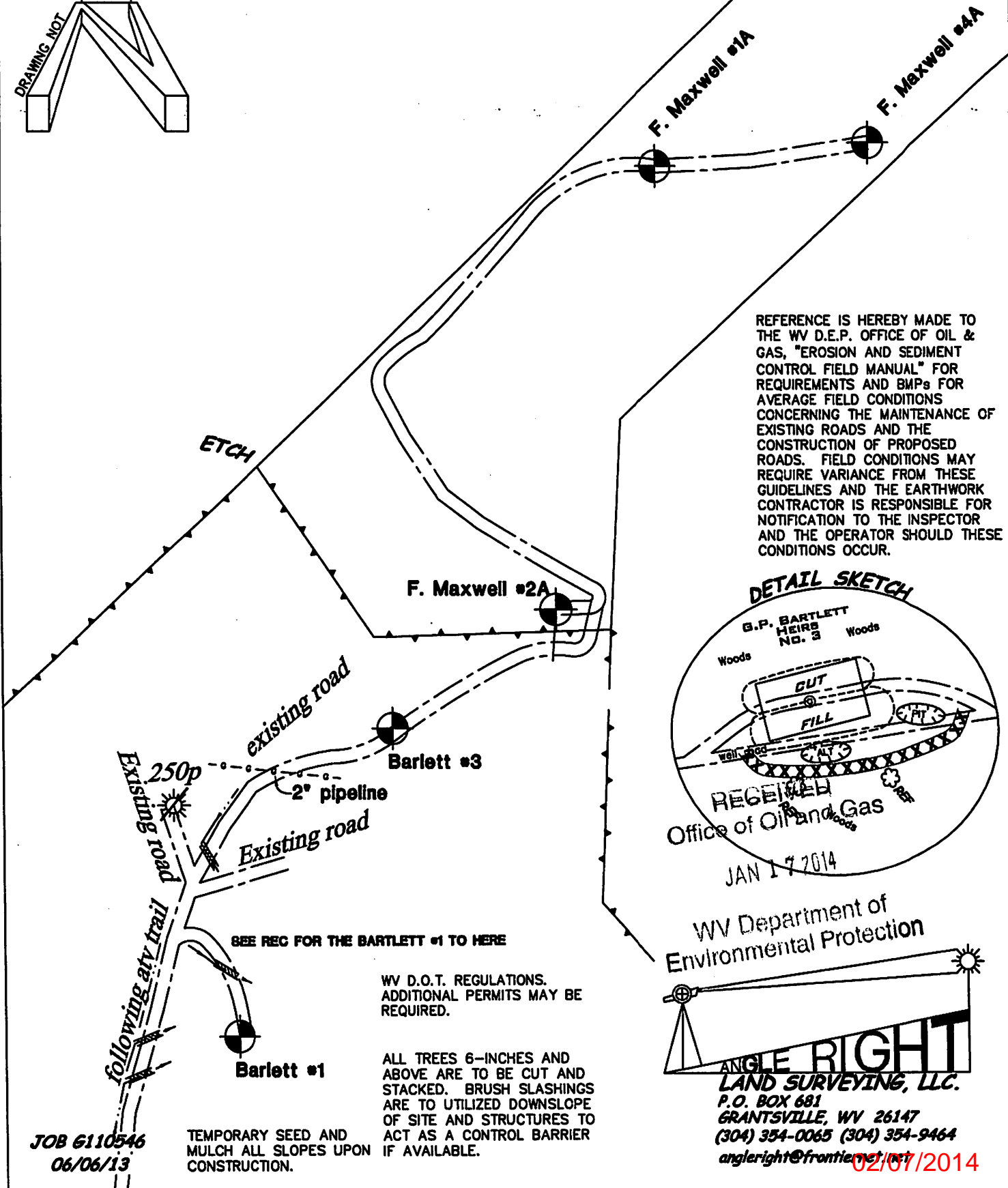
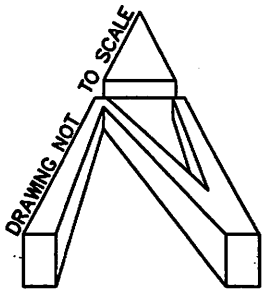
TEMPORARY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION.

JOB 6110544
03/20/12

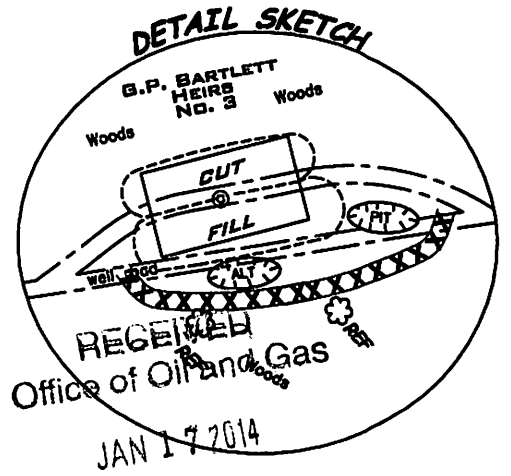
ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWNSLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.

ANGLE RIGHT
LAND SURVEYING, LLC.
P.O. BOX 681
GRANTSVILLE, WV 26147
(304) 354-0065 (304) 354-9464
angleright@frontiernet.net

02/07/2014



REFERENCE IS HEREBY MADE TO THE WV D.E.P. OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL FIELD MANUAL" FOR REQUIREMENTS AND BMPs FOR AVERAGE FIELD CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS OCCUR.



SEE REC FOR THE BARTLETT #1 TO HERE

WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.

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TEMPORARY SEED AND MULCH ALL SLOPES UPON CONSTRUCTION.

JOB 6110546
06/06/13

WV Department of Environmental Protection

02/07/2014

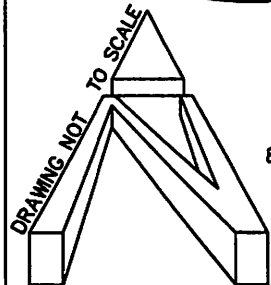
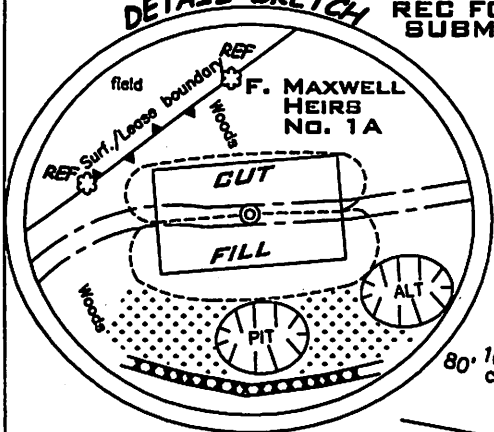
WW9

F. MAXWELL WELLS NOS 1A, 2A, 4A

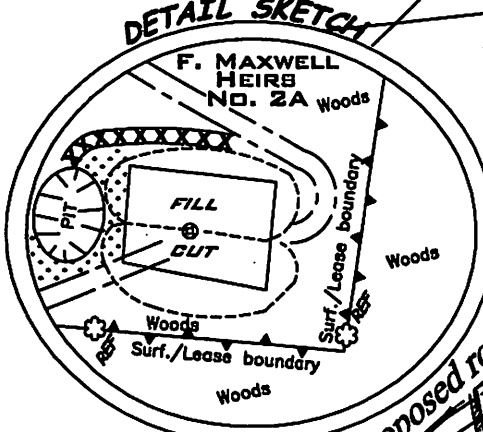
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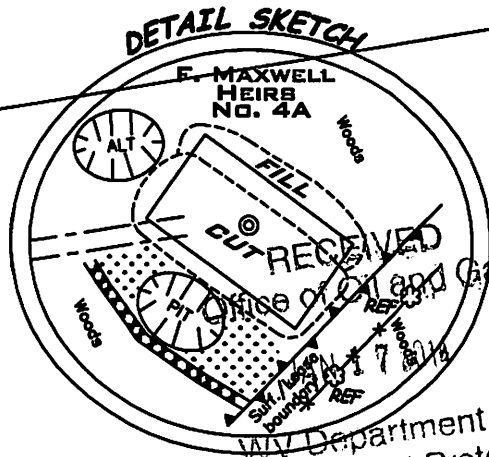
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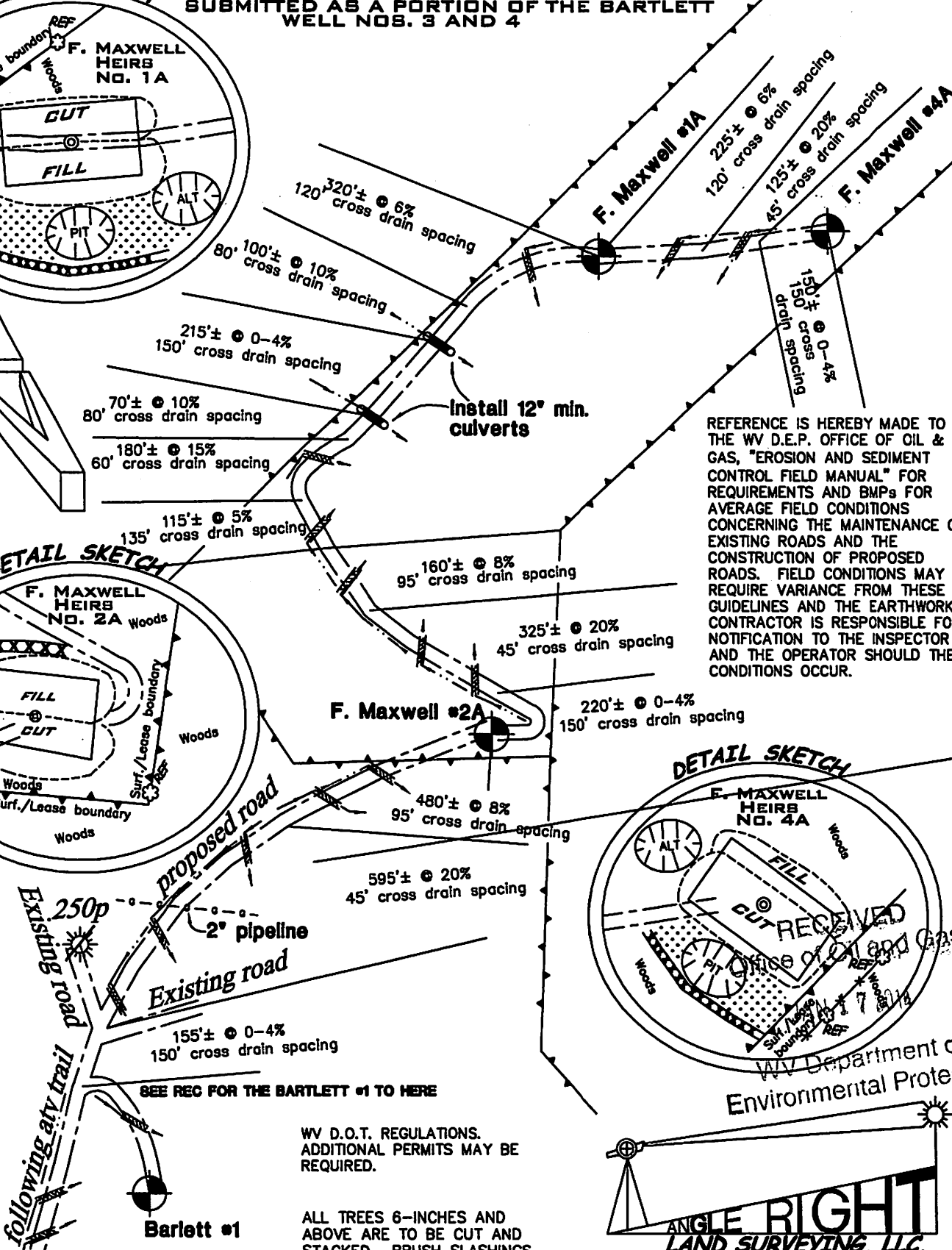
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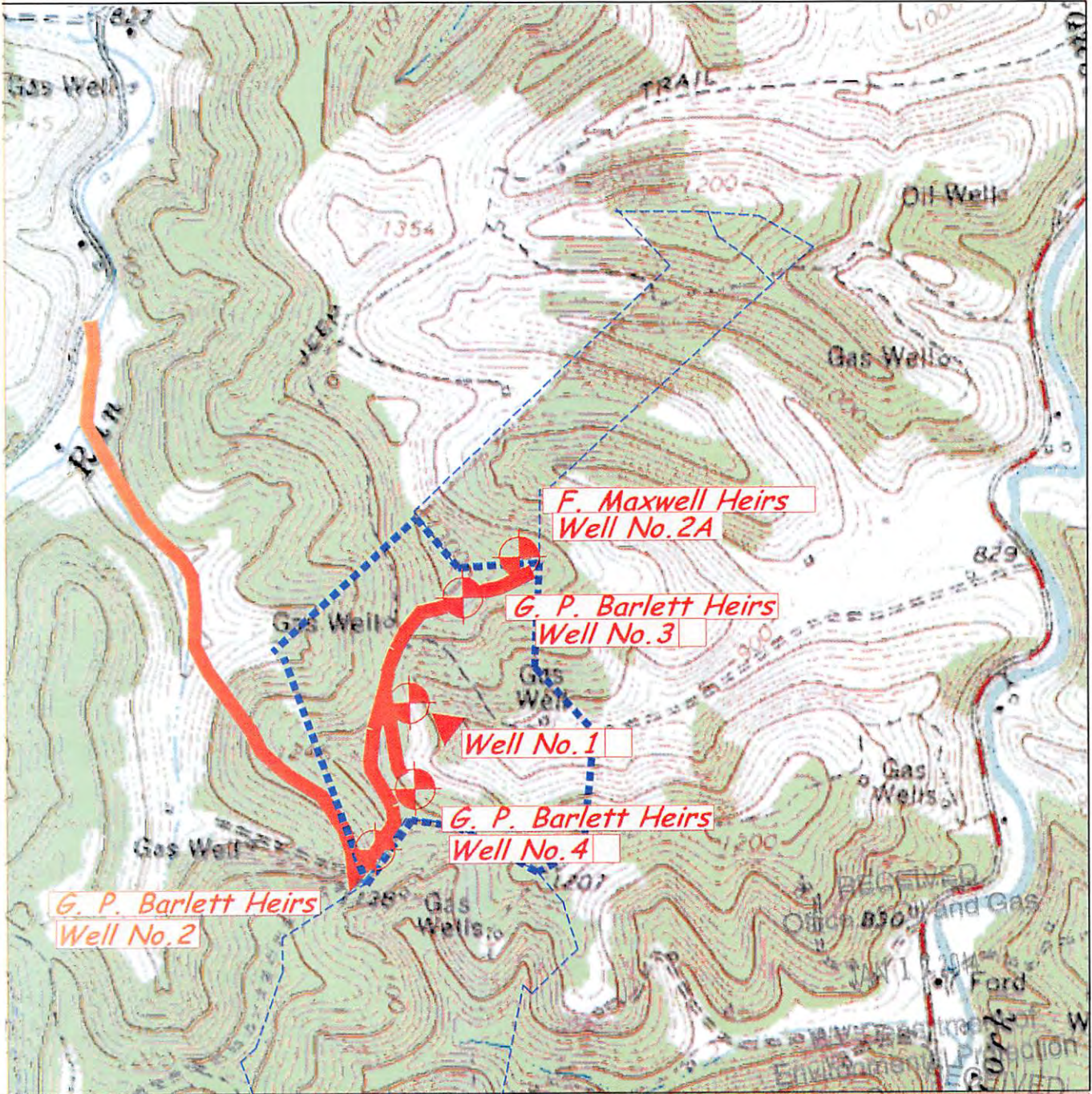
JOB 6110546
03/20/12



ANGLE RIGHT
LAND SURVEYING, LLC.
 P.O. BOX 681
 GRANTSVILLE, WV 26147
 (304) 354-0065 (304) 354-9464
 angleright@frontier.net

02/07/2014

BARTLETT NO 3 AND 4



ANGLE RIGHT LAND SURVEYING, LLC PO BOX 881 GRANTSVILLE, WV 26147 (304) 354-0085 110544	OPERATOR KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	TOPO SECTION NEW MILTON 7.5'	Office of Oil and Gas WELL NAME BARTLETT NO 3 & 4 JAN 17 2014
		SCALE: 1"=1000'	DATE: WV Department of Environmental Protection 06/06/13

