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**west virginia** department of environmental protection

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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](http://www.dep.wv.gov)

June 26, 2014

**WELL WORK PERMIT**

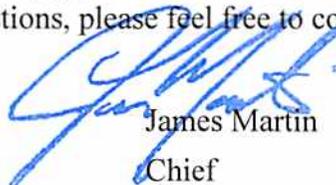
**Vertical Well**

This permit, API Well Number: 47-1706522, 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: IVA WINDON NO. 2  
Farm Name: SMITH, ALAN & CAROL  
**API Well Number: 47-1706522**  
**Permit Type: Vertical Well**  
Date Issued: 06/26/2014

**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

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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 on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operator KEY OIL COMPANY 6 511

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

2) Operator's Well Number: IVA WINDON #2 3) Elevation: 1057'

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

5) Proposed Target Formation(s): \*SEE BELOW Proposed Target Depth: 3000'

6) Proposed Total Depth: 3000' Feet Formation at Proposed Total Depth: GORDON

7) Approximate fresh water strata depths: 110'

8) Approximate salt water depths: 867'

*DCW  
5-9-2014*

9) Approximate coal seam depths: NONE REPORTED ON OFFSET DRILLERS LOGS

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

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

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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	ERW	48	33	0	
Fresh Water	9 5/8	ERW	29	168	168	90 SKS. CTS
Coal						
Intermediate	7	ERW	17	1068	1068	155 SKS. CTS
Production	4 1/2	J-55	10.5		2900	160 SKS.
Tubing						
Liners						

RECEIVED  
Office of Oil and Gas

Packers: Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths Set \_\_\_\_\_

MAY 30 2014

WV Department of  
Environmental Protection

1706522

1). Date: March 13, 2014  
2.) Operator's Well Number IVA WINDON #2  
State 47- Count 017 Permit -  
3.) API Well No.:

**STATE OF WEST VIRGINIA**  
**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 ALAN SMITH  
Address 744 NORTH MAIN STREET  
NEW MARTINSVILLE, WV 26155  
(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:**

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

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

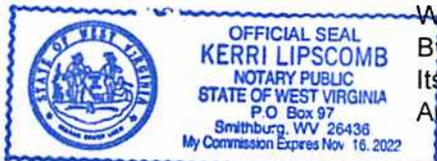
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties by:

- 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

Subscribed and sworn before me this 13<sup>th</sup> day of MARCH, 2014

[Signature: Kerri Lipscomb]

**RECEIVED**  
Office of Oil and Gas  
Notary Public

My Commission Expires November 16, 2022

MAY 30 2014

Oil and Gas Privacy Notice

WW-2A Surface Waiver

SURFACE OWNER WAIVER

1706522  
ck 30641  
650<sup>00</sup>

County DODDRIDGE Operator KEY OIL COMPANY  
Operator well number IVA WINDON #2

**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  
Department of Environmental Protection  
601 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

**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

FOR EXECUTION BY A CORPORATION, ETC

Alan Smith  
Signature

Date 3/30/14

ALAN Smith

Print Name

Company Name

By Its

Office of Oil and Gas  
MAY 30 2014

WV Department of Environmental Protection  
Date of

Signature

Date

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
IVA WINDON	GEORGE JACKSON	1/8	60/87
GEORGE JACKSON to DAVID C. NICHOLS, II, by will book 23 page 51			
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

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 RECEIVED  
 By:Its: PRESIDENT Office of Oil and Gas  
 MAY 30 2014

WW-2B1

Well No. IWA WINDON #2

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.

THERE APPEARS TO BE NO KNOWN WELLS WITHIN 1000 FEET OF PROPOSED WELL of Oil and Gas  
WELL AT CAMP ON PROPERTY WAS PREVIOUSLY TESTED BUT IS NOT WITHIN 1000 FEET  
MAY 30 2014

REFER TO PERMIT CONDITIONS  
JMM

WV Department of  
Environmental Protection

1706522

WW-9  
Rev. 5/10

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 017 - \_\_\_\_\_  
Operator's Well No. IVA WINDON #2

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 Little Toms Fork Quadrangle New Milton 7.5'

Elevation 1,057' 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

*DEW  
5-18-2014*

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 \_\_\_\_\_)

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 *Jan Chapman*

Company Official (Typed Name) Jan Chapman

Company Official Title President

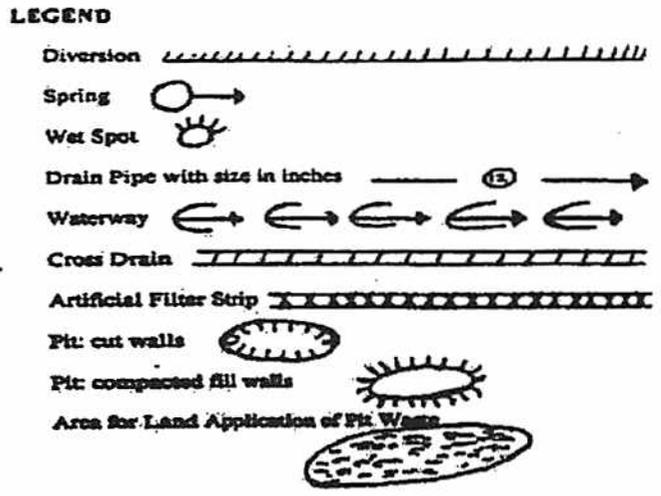
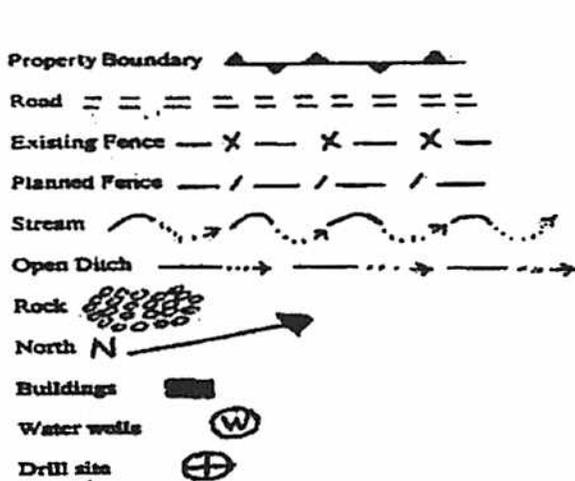
Subscribed and sworn before me this 13<sup>th</sup> day of March, 20 14 RECEIVED  
Office of Oil and Gas

*Kerri Lipscomb* Notary Public MAY 30 2014

My commission expires November 16, 2022



WV Department of Environmental Protection



Proposed Revegetation Treatment: Acres Disturbed 2.1± 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 lbs/acre	Seed Type	Area II 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 Newlon

Comments: Preszed + Mulch install E+S to WV DEP regulations

RECEIVED  
Office of Oil and Gas

Title: Oil & Gas inspection

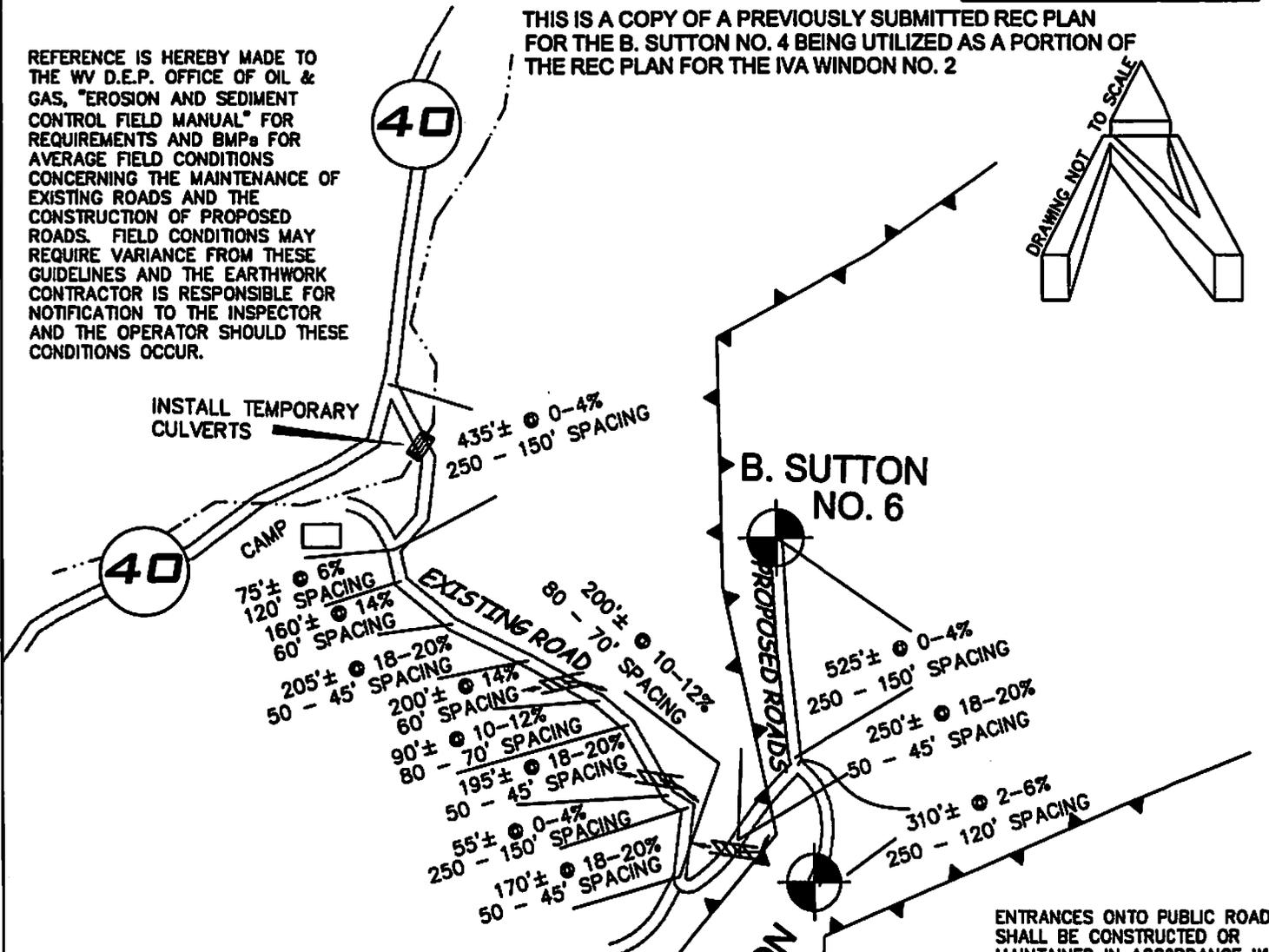
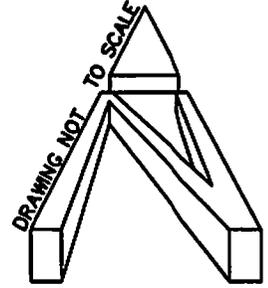
Date: 5-19-2014 MAY 30 2014

Field Reviewed?  Yes  No

WV Department of  
Environmental Protection

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.

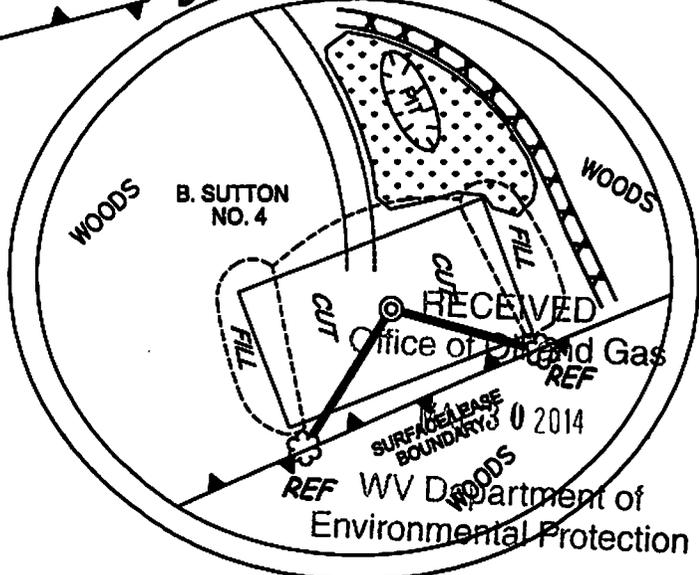
THIS IS A COPY OF A PREVIOUSLY SUBMITTED REC PLAN FOR THE B. SUTTON NO. 4 BEING UTILIZED AS A PORTION OF THE REC PLAN FOR THE IVA WINDON NO. 2



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.

ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.

NO. 4  
DETAIL SKETCH

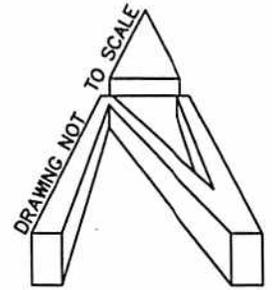


**ANGLE RIGHT**  
LAND SURVEYING, LLC.  
P.O. BOX 681  
GRANTSVILLE, WV 26147  
(304) 354-0065 (304) 354-9464  
angleright@frontiernet.net

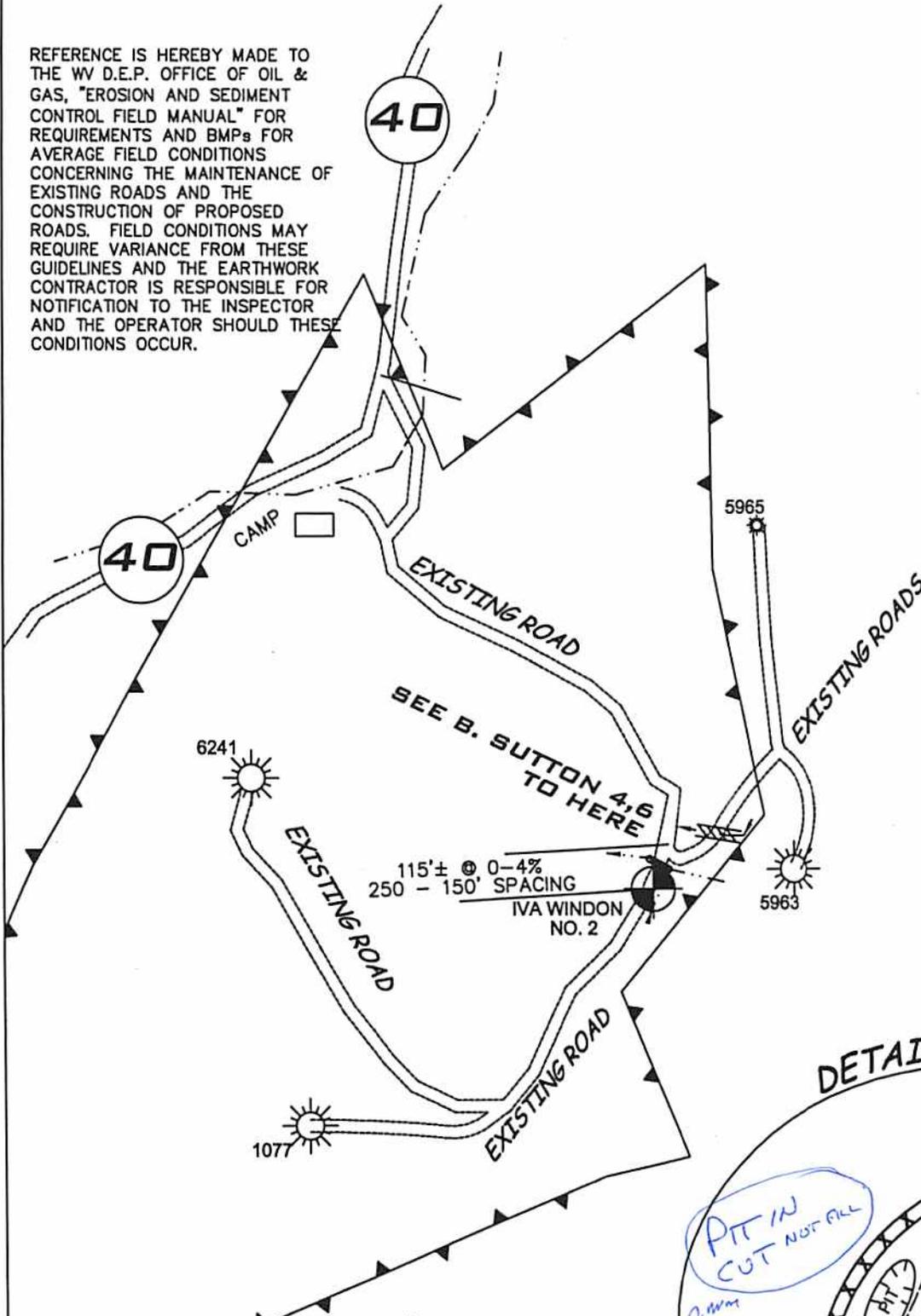
05/25/10

JOB 090466

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.

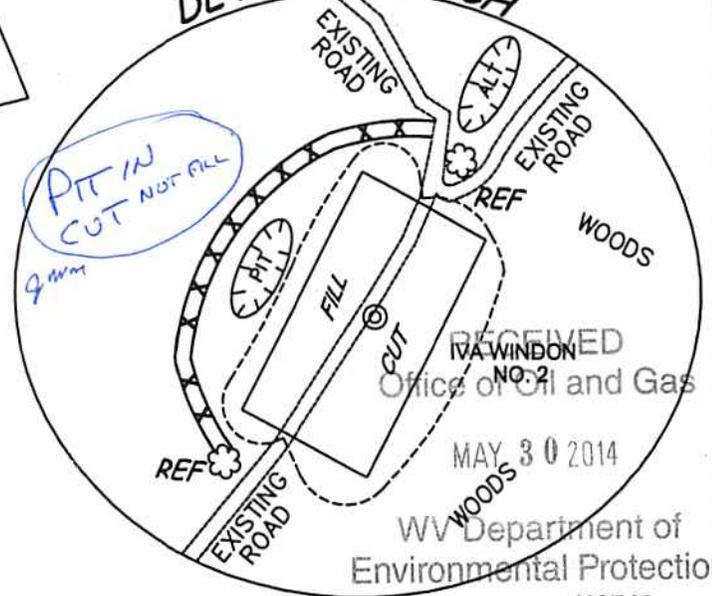


ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED. BRUSH SLASHINGS ARE TO UTILIZED DOWNSLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.



ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.

### DETAIL SKETCH



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

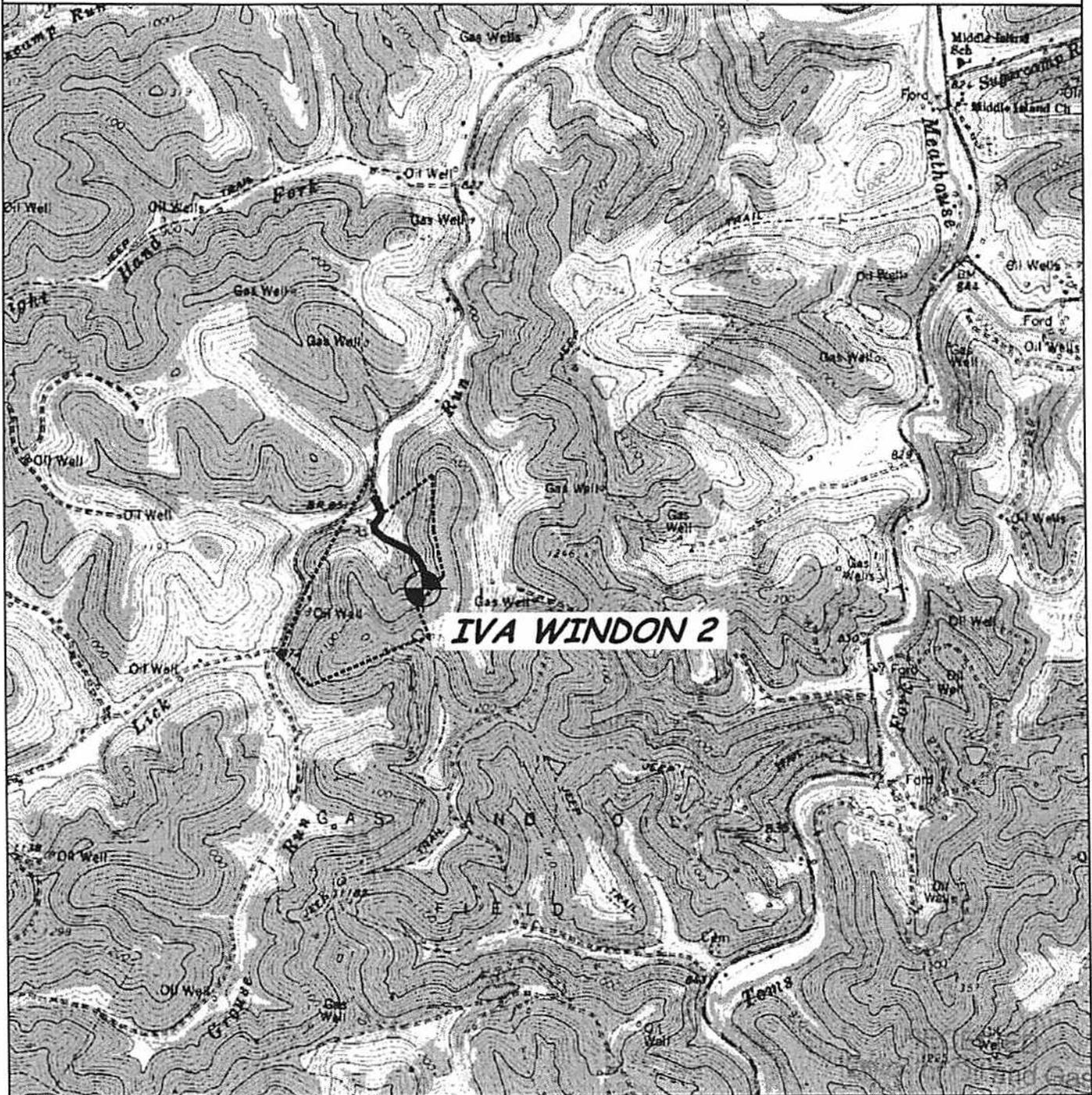
03/09/2014

110542

WW9

# IVA WINDON LEASE WELL NO. 2

PAGE OF



ANGLE RIGHT LAND SURVEYING, LLC PO BOX 681 GRANTSVILLE, WV 26147 (304) 354-0085 110542	OPERATOR	TOPO SECTION	WELL NAME   2014
	KEY OIL COMPANY 22 GARTON PLAZA WESTON, WV 26452	NEW MILTON 7.5' SCALE: 1"=2000'	IVA WINDON 2 DATE: 03/09/2014

Department of  
Environmental Protection

NAD83 DEC. LONG. 80.71938 SURVEYED LONG. 80°43'09.8"

3,180'

LATITUDE 39° 15' 00"

# IVA WINDON LEASE

## 90 AC.± WELL NO. 2

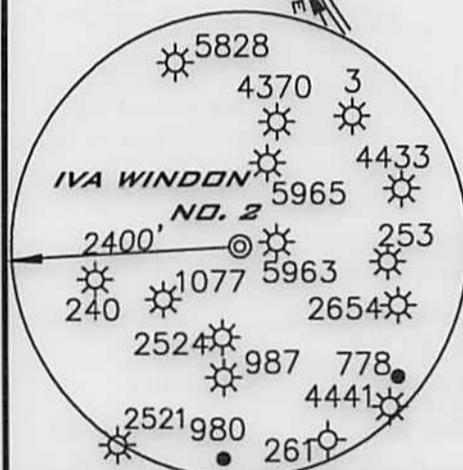
PROPOSED WELL  
STATE PLANE NAD 27  
COORDINATES  
N) 267656  
E) 1654526

UTM NAD 83  
COORDINATES  
N) 4,342,173.7M  
E) 524,221.2 M

LONGITUDE 80° 42' 30"

7,880'

SURVEYED LAT. 39° 13' 42.7"  
DEC. LAT. 39.22852

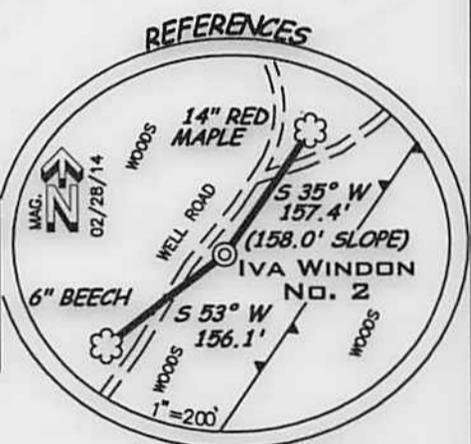


**REFERENCE NOTES**

LEASE AS SHOWN TAKEN FROM A TITLE OPINION PERFORMED BY RICHARD M. RADDCLIFF DATED DEC 13, 1996

OWNERSHIP TAKEN FROM PUBLIC RECORDS OF DODDRIDGE COUNTY, WV IN JAN 2014.

LAT./LONG. BY DIFFERENTIAL SUBMETER MAPPING GRADE GPS

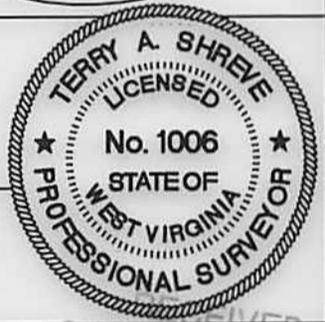


(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER	110542 (WB 17-29)
DRAWING NUMBER	110542_WP2
SCALE	1"=800'
MINIMUM DEGREE OF ACCURACY	1/200
PROVEN SOURCE OF ELEVATION	SUB-METER MAPPING GRADE GPS

I THE UNDERSIGNED HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 1006 *Terry A. Shreve*



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

DATE: MARCH 9, 2014

OPERATORS WELL NO. IVA WINDON NO. 2

API WELL NO. 47-017

STATE COUNTY PERMIT

LOCATION ELEVATION 1,057' WATERSHED LICK RUN

DISTRICT NEW MILTON COUNTY DODDRIDGE

QUADRANGLE NEW MILTON 7.5' LEASE NUMBER

SURFACE OWNER ALAN AND CAROL SMITH ACREAGE 81.38 AC±

OIL & GAS ROYALTY OWNER NANCY FOUT et al LEASE ACREAGE 81.38 AC±

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION

TARGET FORMATION GORDON ESTIMATED DEPTH 3000'

WELL OPERATOR KEY OIL COMPANY DESIGNATED AGENT JAN CHAPMAN

ADDRESS 22 GARTON PLAZA, WESTON, WV 26452

COUNTY NAME PERMIT

form wv6 A.R.L.B