



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

April 14, 2014

WELL WORK PERMIT

Re-Work

This permit, API Well Number: 47-3300891, issued to DOMINION TRANSMISSION INC, 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: 11938
Farm Name: HALL, WORTHY C.
API Well Number: 47-3300891
Permit Type: Re-Work
Date Issued: 04/14/2014

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

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.

3300 891R
CK17900
65000

WW - 2B
(Rev. 8/10)

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

6 488

1) Well Operator: Dominion Transmission, Inc. 307048 Harrison Grant Mount Clare 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: 11938 3) Elevation: 1,274'

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

5) Proposed Target Formation(s): Balltown Proposed Target Depth: 3,200'
6) Proposed Total Depth: 3,300 Feet Formation at Proposed Total Depth: Balltown
7) Approximate fresh water strata depths: 10'
8) Approximate salt water depths: 730'

9) Approximate coal seam depths: 395'

10) Approximate void depths, (coal, Karst, other): None listed in offset well data or well record

11) Does land contain coal seams tributary to active mine? None

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)
Re-work - squeeze cement behind 4-1/2" pipe and frac Balltown with sand and water.

13) **CASING AND TUBING PROGRAM**

AS 4/18/14

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	13"			Existing-see well record	Existing-see well record	CTS
Coal						
Intermediate	8.25"			Existing-see well record	Existing-see well record	CTS
Production	4.5"	J-55		4,477	4,477	200 Sacks
Tubing						
Liners						

Received

Packers: Kind: _____
Sizes: _____
Depths Set _____

MAR 24 2014

11938
D-11-3
Kennedy



RECEIVED

3300891R

EASTERN AREA

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil _____
Cable _____ Gas X
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Quadrangle Weston

Permit No. HAR-891

Company <u>Consolidated Gas Supply Corp.</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address <u>Clarksburg, WV</u>	Size			
Farm <u>Alice V. Knicley</u> Acres <u>260</u>	<u>20-1 1/2</u>	<u>20'</u>	<u>20'</u>	To Surface
Location (waters) <u>Rice's Run</u>	Cond.			
Well No. <u>11938</u> Elev. <u>1266</u>	<u>13-1 1/2"</u>	<u>291'</u>	<u>291'</u>	To Surface
District <u>Grant</u> County <u>Harrison</u>	<u>9 5/8</u>			
The surface of tract is owned in fee by _____	<u>8 5/8</u>	<u>2000'</u>	<u>2000'</u>	To Surface
Address _____	<u>7</u>			
Mineral rights are owned by _____	<u>5 1/2</u>			
_____ Address _____	<u>4 1/2</u>	<u>4477'</u>	<u>4477'</u>	100 bags
Drilling Commenced <u>5-24-75</u>	<u>3</u>			
Drilling Completed <u>6-08-75</u>	<u>2</u>			
Initial open flow <u>43M</u> cu. ft. _____ bbls.	Liners Used			
Final production <u>169M</u> cu. ft. per day _____ bbls.				
Well open <u>14</u> days hrs. before test <u>1370#</u> RP.				

Well treatment details:

Attach copy of cementing record.

Fractured with 700 bbl. water, 500 gal. acid & 56,000# sand.

Perforations: 4321-4331 w/20 holes.

Coal was encountered at 395' Feet 24" Inches
Fresh water 10' Feet _____ Salt Water 730' Feet _____
Producing Sand Benson Depth 4321-4331

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Sand & Shale			0	395	Water 10'	Fresh
Coal			395	397		
Sand & Shale			397	1327	Water 730'	Salt
Little Lime			1327	1345	Gas 1287'	Show
Big Lime			1345	1425		
Big Injun			1425	1550		
Sand & Shale			1550	1865	Gas 1662'	Show
50' Sand			1865	1955		
Sand & Shale			1955	2095		
Gordon			2095	2115		
4th Sand			2115	2150		
Sand & Shale			2150	4320		
Benson			4320	4335	Gas 4321-4331	
Total Depth				4488		

Received

MAR 24 2014

Consolidated Gas Supply Corp.
445 West Main Street
Clarksburg, WV 26301

Office of Oil and Gas
WV Dept. of Environmental Protection

KB Measurement 11' above GL

(over)

* Indicates Electric Log tops in the remarks section.

WW-2A
(Rev. 6-07)

1). Date: _____
2.) Operator's Well Number 11938
State 47- County 033 Permit 00891
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:	5) (a) Coal Operator
(a) Name <u>Worthy C. Hall</u> <i>W</i>	Name <u>N/A</u>
Address <u>RR 2 Box 5</u>	Address _____
<u>Lost Creek, WV 26385</u>	
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>None</u>
	Address _____
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Sam Ward</u>	(c) Coal Lessee with Declaration
Address <u>P.O. Box 2327</u>	Name <u>N/A</u>
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-389-7583</u>	

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

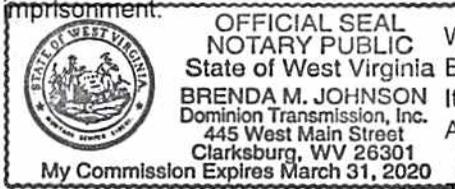
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through on the above named parties by:

- x 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

	Well Operator	<u>Dominion Transmission, Inc.</u>
	By:	<u>James D. Blasingame</u> <i>James D. Blasingame</i> <u>3/12/14</u>
	Its:	<u>Designated Agent and Director of Storage</u>
	Address	<u>445 West Main Street</u>
	Telephone	<u>Clarksburg, WV 26301</u> <u>304-669-4850</u>

Subscribed and sworn before me this 12th day of March, 2014 **Received**

Brenda M. Johnson Notary Public

My Commission Expires March 31, 2020 **MAR 24 2014**

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

WW-2A Surface Waiver

SURFACE OWNER WAIVER

County Harrison

Operator
Operator well number

Dominion Transmission, Inc.
11938

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 57th 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 a 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.

Worthy C. Hall
Signature

Date 3-12-14

Company Name _____
By _____

Worthy C. Hall
Print Name

Its _____ Date _____

Received

Signature

Date

MAR 24 2014

**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
Alice V. Knicley	Consolidated Gas Supply Corp.	1/8	119/258

Consolidated Gas Supply aka Dominion Transmission

SEE ATTACHMENT A

**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.

Received

MAR 21 2014

Well Operator:
By: Its:

Dominion Transmission, Inc.

James D. Blasingame, Designated Agent and Director of Storage

James D. Blasingame 3/21/14

WW-9
(5/13)

Page _____ of _____
API Number 47 - _____ - _____
Operator's Well No. 11938

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Dominion Transmission, Inc. OP Code 307048

Watershed (HUC 10) Tributary of Lost Creek Quadrangle Mount Clare 7.5'

Elevation 1,274' County Harrison District Grant

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

Will a pit be used for drill cuttings? Yes X No _____

If so, please describe anticipated pit waste: Rock cuttings/drilled solids, drilling and completion fluids

Will a synthetic liner be used in the pit? Yes X No _____ If so, what ml.? 60

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 _____)

9/10/14

Will closed loop system be used? Air drilling operations - no; Fluid drilling operations (if necessary) - yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Air, foam/soap, fresh water, water based polymer mud

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? Drilling Mud - sodium/calcium/potassium chloride(s), starch, xanthan gum, sodium bicarbonate, caustic soda, biocide

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Primary plan - Leave in pit; Alternate plan - Landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Cement or lime, depending on product availability

-Landfill or offsite name/permit number? If necessary to landfill, Meadowfill Landfill: R30-MSWLGP2011-03300128

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.

Received

Company Official Signature James D. Blasingame 3/12/14 MAR 24 2014

Company Official (Typed Name) James D. Blasingame

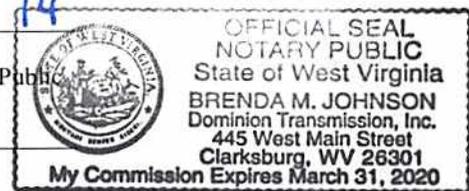
Company Official Title Designated Agent and Director of Storage

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 12th day of March, 20 14

Brenda M. Johnson Notary Public

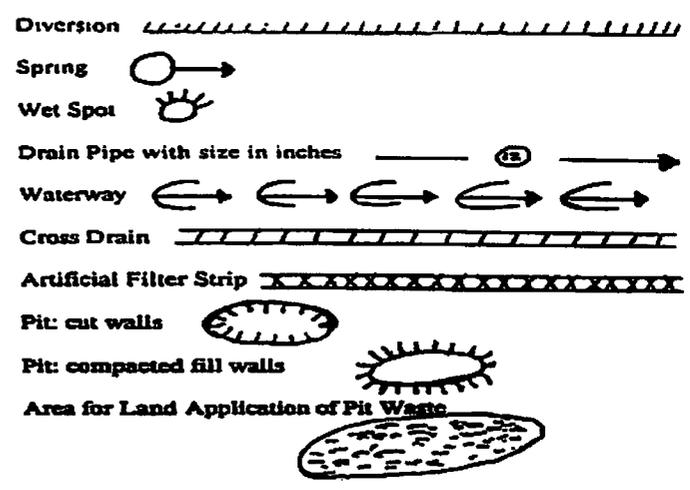
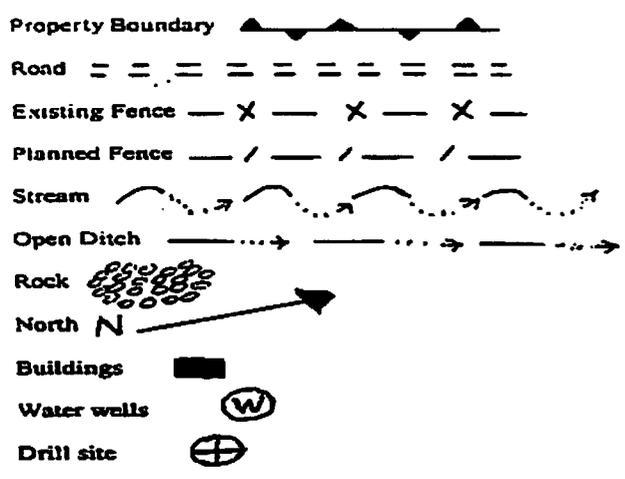
My commission expires March 31, 2020



Form WW-9

Operator's Well No. 11938

LEGEND



Proposed Revegetation Treatment: Acres Disturbed 1.3 ± Prevegetation pH _____

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 HAY 2 Tons/acre

Seed Mixtures

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

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

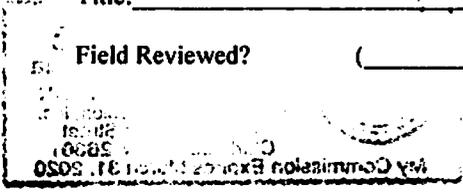
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

Comments: ALOS _____

Title: _____ Date: _____

Field Reviewed? () Yes () No



A.V. KNICLEY LEASE WELL NO. 11938 47-033-00891



**EXISTING GAS WELL
NO. 11938
47-033-00891**

**230' ± @
5-10% GRADE ±**

**400' ± @
10-15% GRADE ±**

**300' ± @
5-10% GRADE ±**

**260' ± @
15-20% GRADE ±**

**590' ± @
0-5% GRADE ±**

EXISTING GRAVEL BASE ACCESS

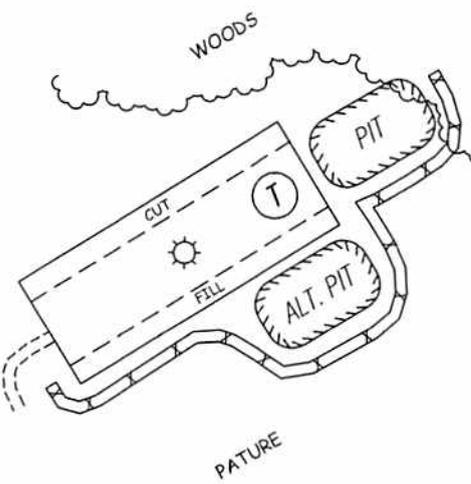
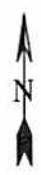
EXISTING CLUVERT



SCALE: 1"=500'



Detail Sketch for WELL NO. 11938
47-033-00891



NOT TO SCALE

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CLUVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES)

- = EXISTING CLUVERT
- = PROPOSED CLUVERT 15' MIN. UNLESS OTHERWISE NOTED
- = PROPOSED STREAM CROSSING

Received
MAR 24 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

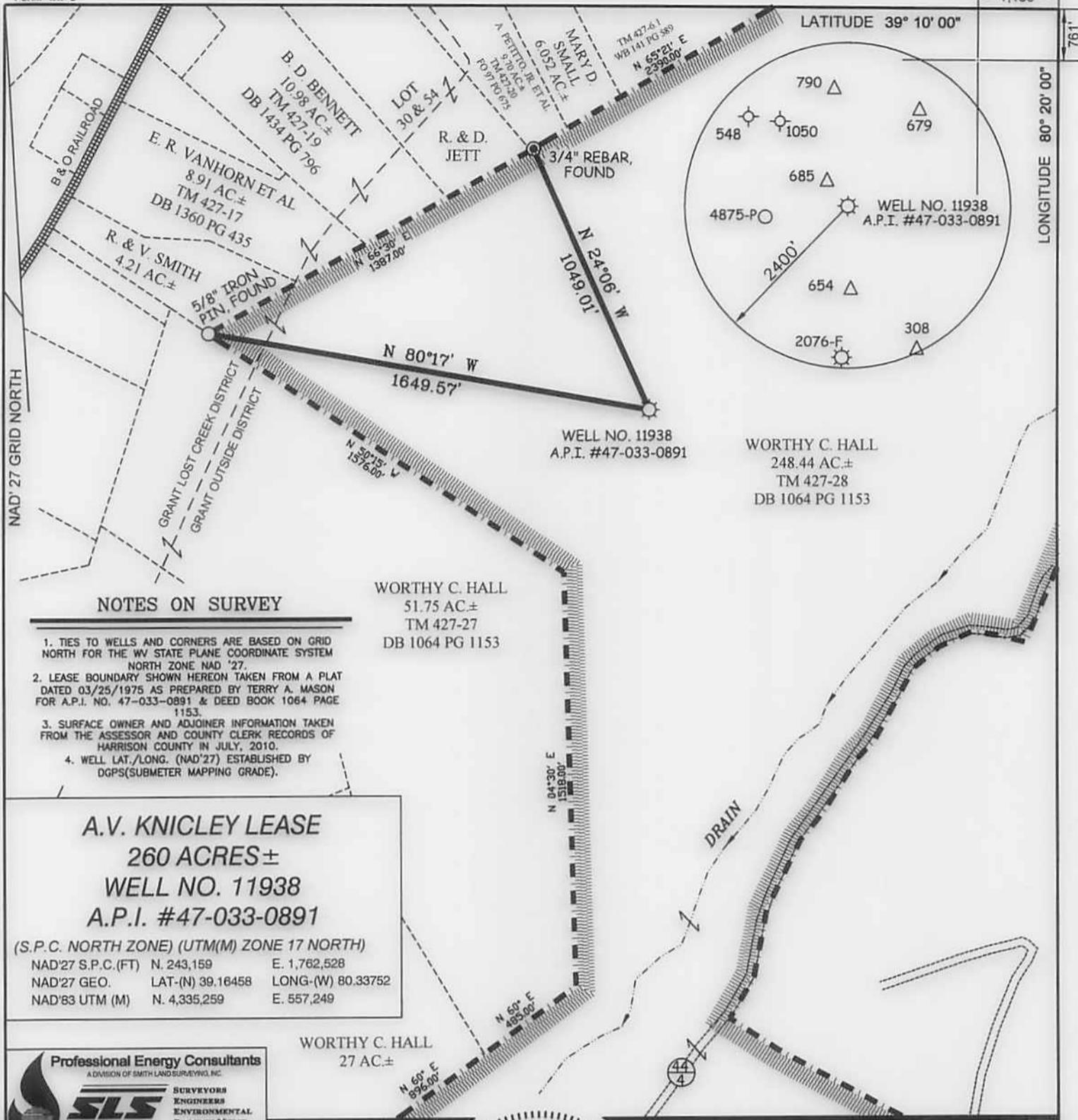


Professional Energy Consultants
A DIVISION OF SMITH LAND SURVEYING

SURVEYORS PROJECT MGMT. **SLS** ENGINEERS ENVIRONMENTAL

P.O. Box 150
Glenville, WV 26031
(304) 482-0614
56055 Dines Bottom Road
Shady Side, OH 43047
(740) 971-9611
HONESTY. INTEGRITY. QUALITY.

DRAWN BY K.G.M.	FILE NO. 8135	DATE 02/26/14	CADD FILE: 8135REC11938.DWG
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NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A PLAT DATED 03/25/1975 AS PREPARED BY TERRY A. MASON FOR A.P.I. NO. 47-033-0891 & DEED BOOK 1064 PAGE 1153.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF HARRISON COUNTY IN JULY, 2010.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

A.V. KNICLEY LEASE
260 ACRES±
WELL NO. 11938
A.P.I. #47-033-0891

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)
 NAD'27 S.P.C.(FT) N. 243,159 E. 1,762,528
 NAD'27 GEO. LAT-(N) 39.16458 LONG-(W) 80.33752
 NAD'83 UTM (M) N. 4,335,259 E. 557,249

Professional Energy Consultants
 A DIVISION OF SMITH LAND SURVEYING, INC.

 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.
 (304) 482-8834 www.slsurveys.com

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S.
 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE FEBRUARY 10, 20 14
 REVISED _____ 20 _____
 OPERATORS WELL NO. 11938
 API WELL NO. 47-033-00891R
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8135P11938
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE) SCALE 1" = 500'

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

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____ IF "GAS" PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION:
 ELEVATION 1,274' WATERSHED TRIBUTARY OF LOST CREEK
 DISTRICT GRANT COUNTY HARRISON QUADRANGLE MOUNT CLARE 7.5'

SURFACE OWNER WORTHY C. HALL ACREAGE 248.44±
 ROYALTY OWNER VIVIEN SCHAFFER ACREAGE 260±
 PROPOSED WORK: LEASE NO. LC 0043731

DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION X PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION BALLTOWN
 ESTIMATED DEPTH 3,200'

WELL OPERATOR DOMINION TRANSMISSION DESIGNATED AGENT JAMES BLASINGAME
 ADDRESS P.O. BOX 2450 ADDRESS P.O. BOX 2450
CLARKSBURG, WV 26301 CLARKSBURG, WV 26301

COUNTY NAME
 PERMIT