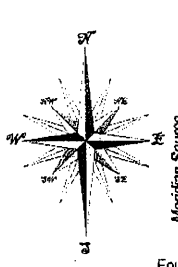


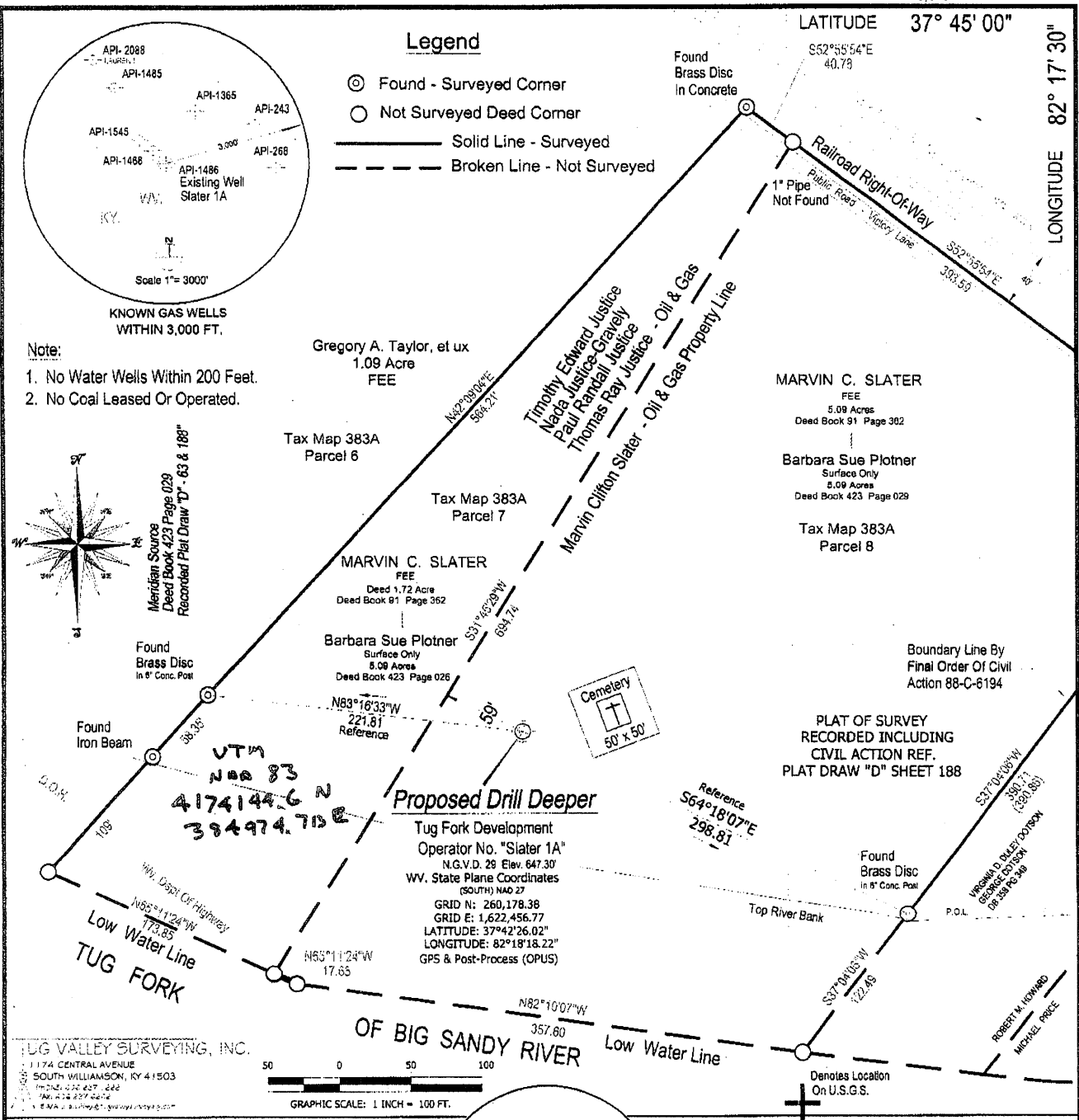
KNOWN GAS WELLS WITHIN 3,000 FT.

Note:
 1. No Water Wells Within 200 Feet.
 2. No Coal Leased Or Operated.

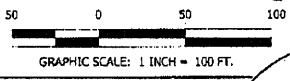


Legend

- ⊙ Found - Surveyed Corner
- Not Surveyed Deed Corner
- Solid Line - Surveyed
- - - Broken Line - Not Surveyed



TUG VALLEY SURVEYING, INC.
 1174 CENTRAL AVENUE
 SOUTH WILLIAMSON, KY 41503
 PHONE: 774-437-244
 FAX: 774-237-4644
 E-MAIL: tvalley@tvalley.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.

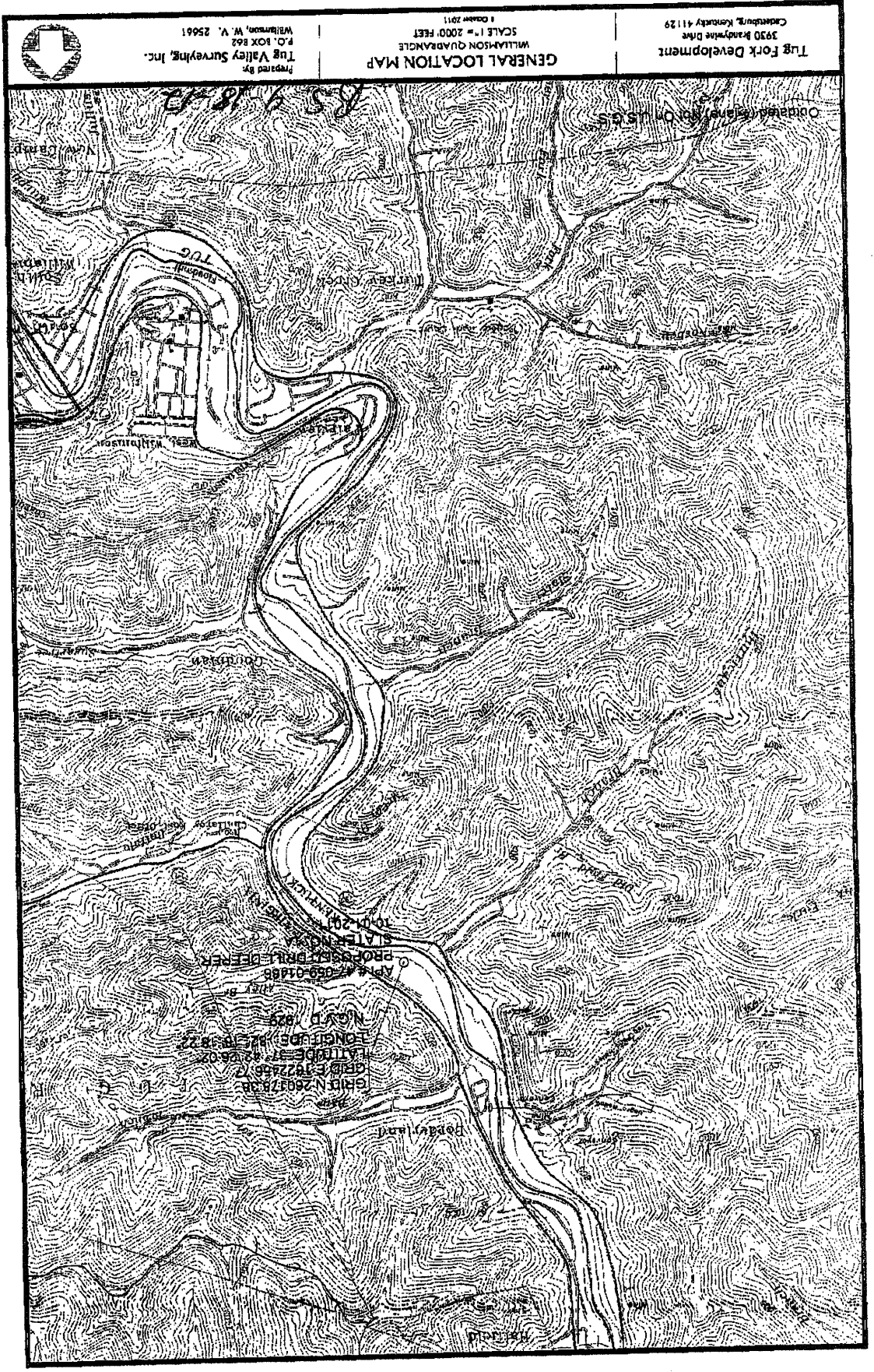
[Signature]
 Alan J. Coffey, PLS No. 869su

(+) DENOTES LOCATION OF WELL ON U.S.G.S. TOPOGRAPHIC MAP
 DATE 1 October 20 11
 OPERATORS WELL NO. Slater No. 1A

API WELL NO. **47 - 059 - 01486**
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1:	5,000	FILE NO.		STATE OF WEST VIRGINIA	
PROVEN SOURCE OF ELEVATION:	Benchmark RV-169 (OPUS) N.G.V.D. 1929	SCALE	1" = 100 FEET	DIVISION OF ENVIRONMENTAL PROTECTION	
			OIL AND GAS DIVISION		
WELL TYPE:	OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/>	WASTE DISPOSAL	If "Gas" Production <input checked="" type="checkbox"/>	Storage <input type="checkbox"/>	Deep <input type="checkbox"/> Shallow <input checked="" type="checkbox"/>
LOCATION:	Elevation <u>647.30'</u> N.G.V.D. 29	Watershed	<u>Tug Fork Of Big Sandy River</u>		
	District <u>Tug River</u>	County	<u>Mingo</u>	Quadrangle	<u>Williamson 7.5 Min.</u>
SURFACE OWNER	<u>Barbara Sue Plotner</u>		ACREAGE	<u>5.09 Ac.</u>	
ROYALTY OWNER	<u>Marvin Clifton Slater</u>		LEASE ACREAGE	<u>5.09 Ac.</u>	
PROPOSED WORK:	DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input checked="" type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/>		LEASE NO. _____		
	PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG <input type="checkbox"/>		TARGET FORMATION <u>LOWER HURON</u>		
	OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____		ESTIMATED DEPTH <u>± 3,600'</u>		
WELL OPERATOR	<u>Tug Fork Development</u>		DESIGNATED AGENT	<u>Ira Dave Bartram</u>	
ADDRESS:	<u>3930 Brandywine Drive</u> <u>Catlettsburg, KY. 41129</u>		ADDRESS	<u>Box 101 Kenova, WV. 25530</u>	
10/05/2012					

COUNTY PERMIT



NOTES:

1. All wells within 200' are shown on plat.

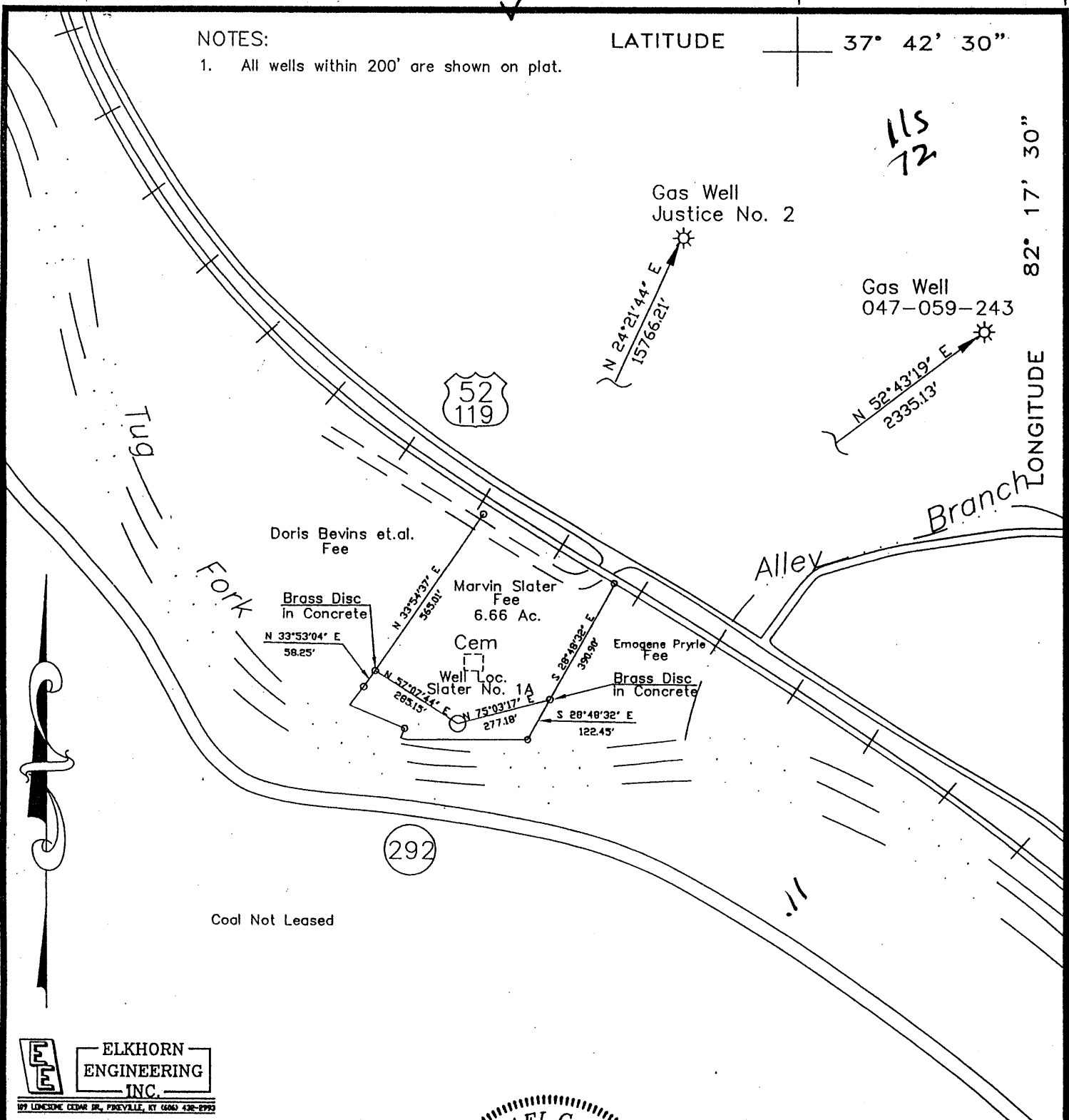
LATITUDE

37° 42' 30"

3,782'
LLS
72

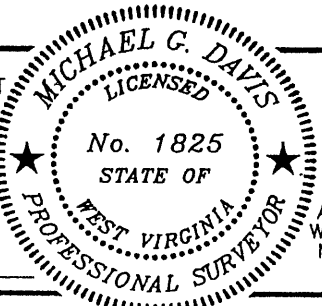
LONGITUDE 82° 17' 30"

595'



ELKHORN ENGINEERING INC.
89 LINCOLN CEDAR DR., FRYVILLE, KY 40643 438-8793

I, THE UNDERSIGNED, DO 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 ENERGY.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPGRAPHIC MAPS

DATE NOV. 5th, 2001

OPERATORS WELL NO. SLATER NO.1A

P.S. 1825 *Michael Davis*

API WELL NO. 047 STATE 059 COUNTY 01486 PERMIT

MINIMUM DEGREE OF ACCURACY 1 : 14,600' FILE NO. 0050-32
PROVEN SOURCE SCALE 1" = 400'
OF ELEVATION (EXISTING WELL JUSTICE NO) (803.14')

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
10 McJUNKIN RD., NITRO, WV 25143-2506

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ IF 'GAS' PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
LOCATION: ELEVATION 605.28' WATERSHED ALLEY BRANCH OF TUG RIVER
DISTRICT ___ COUNTY MINGO QUADRANGLE WILLIAMSON
SURFACE OWNER MARVIN SLATER ACREAGE ___
ROYALTY OWNER MARVIN SLATER LEASE ACREAGE ___
PROPOSED WORK:
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ PLUG & ABANDON ___ CLEAN OUT & REPLUG ___ OTHER ___
PHYSICAL CHANGE IN WELL (SPECIFY) ___ TARGET FORMATION DEVONIAN SHALE
ESTIMATED DEPTH 3500'

WELL OPERATOR TUG FORK DEVELOPMENT DESIGNATED AGENT SID WHEELER
ADDRESS 3930 BRANDYWINE DRIVE ADDRESS BOX 101
CATLETTSBURG, KY 41129 KENOVA, WVA 25530

6-6 243

NOV 06 2001

MINGO 1486

WR-35

DATE: 3/16/02
API #: 47 59 01486 *ALY*

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

RECEIVED
Office of Oil & Gas
Permitting
MAR 22 2002
WV Department of
Environmental Protection

Farm name: SLATER Operator Well No.: 1-A

LOCATION: Elevation: 604.13 Quadrangle: WILLIAMSON

District: TUG RIVER County: MINGO
Latitude: 595 Feet South of 37 Deg. 42 Min. 30 Sec.
Longitude 3782 Feet West of 82 Deg. 17 Min. 30 Sec.

Company: TUG FORK DEVELOPMENT

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cx. Ft.
<u>3930 BRANDYWINE DR</u>				
<u>CATLETTSBURG, KY 41129</u>	<u>13 3/8</u>	<u>82</u>	<u>82</u>	<u>DRIVE PIPE</u>
	<u>9 5/8</u>	<u>282</u>	<u>282</u>	<u>135</u>
Agent: <u>SIDNEY WHEELER</u>	<u>7</u>	<u>1550</u>	<u>1550</u>	<u>366</u>
Inspector: <u>OFIE HELMICK</u>				
Date Permit Issued: <u>11/5/01</u>				
Date Well Work Commenced: <u>11/6/01</u>				
Date Well Work Completed: <u>11/21/01</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable Rig				
Total Depth (feet): <u>2280</u>				
Fresh Water Depth (ft.): <u>90</u>				
Salt Water Depth (ft.): <u>1690</u>				
Is coal being mined in area (N/Y): <u>N</u>				
Coal Depths (ft.): <u>185-180</u>				

OPEN FLOW DATA

Producing formation WEIR Pay zone depth (ft) 2008
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 900 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 218 psig (surface pressure) after 72 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: W.D. Curbedge
By: W.D. CURBEDGE
Date: 3/16/02

MAR 22 2002

MINGO 12

SLATER #1
47-39-01486

<u>FORMATIONS</u>	<u>INTERVAL</u>	<u>SHOWS</u>		<u>PERFORATIONS</u>
		<u>GAS</u>	<u>WATER</u>	
LOOSE SAND	0-80			
SAND AND SHALE	80-884		90-FRESH	
SALT SAND	884-1244		1090	
SAND AND SHALE	1244-1294			
MAXON	1294-1348			
SAND SHALE	1348-1454			
LIME AND SHALE	1454-1494			
LITTLE LIME	1494-1554			
BIG LIME	1554-1704			
INJUN	1704-1764			
WEIR	1764-2280	2008		
<u>STIMULATION</u>				
NATURAL				

9/2/10





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

October 02, 2012

WELL WORK PERMIT
Drilling Deeper

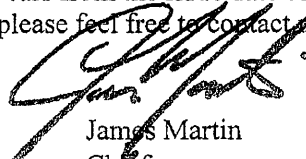
This permit, API Well Number: 47-5901486, issued to TUG FORK DEVELOPMENT, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as 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 of completion of drilling, 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: SLATER 1A
Farm Name: PLOTNER, BARBARA SUE
API Well Number: 47-5901486
Permit Type: Drilling Deeper
Date Issued: 10/02/2012

Promoting a healthy environment.

10/05/2012