



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, July 12, 2018
WELL WORK PERMIT
Vertical / Plugging

HILDRETH, ROY G & SON INC
P.O. BOX 1007
SPENCER, WV 25276

Re: Permit approval for 2
47-015-01758-00-00

This well work permit 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 any additional specific 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 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.

Per 35 CSR 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- 0450.

James A. Martin
Chief

Operator's Well Number: MARY D. HANSHAW 2
Farm Name: HANSHAW, MARY D.
U.S. WELL NUMBER: 47-015-01758-00-00
Vertical Plugging
Date Issued: 7/12/2018

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ____/ Gas X/ Liquid injection ____/ Waste disposal ____/
(If "Gas, Production X or Underground storage ____) Deep ____/ ShallowX

5) Location: Elevation 800 Watershed Sandy
District Henry County Clay Quadrangle Otter

6) Well Operator Roy G. Hildreth & Son, Inc. 7) Designated Agent Roy G. Hildreth
Address P.O. Box 1007 Address P.O. Box 1007
Spencer, WV 25276 Spencer, WV 25276

8) Oil and Gas Inspector to be notified Name Jeremy James
Address P.O. Box 36
Clendenin, WV25045
9) Plugging Contractor Name _____
Address _____

10) Work Order: The work order for the manner of plugging this well is as follows:
See attached

See Prog

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Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector *[Signature]* Date 7-12-18

07/13/2018

Well Plugging Procedures for
Mary D. Hanshaw #2
API #047-15-1758

1. Run in hole and measure TD. Trip in hole w 1 1/2" tubing, circulate H2O & Gel to void 4 1/2" casing of oil
2. Set bottom 100' cement plug - trip 1 1/2" tubing out of hole.
3. Shoot 4 1/2" casing at Salt Sand - pull if possible.
4. If unable to pull 4 1/2" at Salt Sand, shoot 4 1/2" at elevation, pull a few joints and set 100' cement plug across Salt Sand casing cut and at elevation casing cut.
5. Pull 4 1/2" casing and set 100' to 120' cement plug to surface.
6. 6% gel spacers between all plugs.
7. Rough grade for Dollar General project.
7. Set monument, move off.

*Dehydrate!
Spacer if
unable to pull.*

*Pull all free pipe
TU*

10" / 8 5/8" / 4 1/2"

*August 14th
7-12-18*

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

Oil and Gas Division

WELL RECORD

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

Quadrangle HT 2
 Permit No. 015-1758

Company <u>Ray G. Hildreth</u>	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Address _____				
Farm <u>Mary HANSHAW</u> Acres <u>1.34</u>				
Location (water) <u>SANDY</u>				
Well No. <u>2</u> Elev <u>800</u>	Size			
District <u>HENRY</u> County <u>CLAY</u>	20-16			
The surface of tract is owned in fee by _____	Cond.			
	13-10"	<u>30</u>		
	9 5/8			
Address _____	8 5/8	<u>500</u>		
Mineral rights are owned by _____	7			
Address _____	5 1/2			
Drilling Commenced <u>July 1 - 1933</u>	4 1/2			
Drilling Completed <u>Aug 4 - 1933</u>	3			
Initial open flow _____ cu. ft. _____ bbls.	2			
Final production _____ cu. ft. per day _____ bbls.	Liners Used			
Well open _____ hrs. before test _____ RP.				
Well treatment details: _____				

Attach copy of cementing record.

Coal was encountered at _____ Feet _____ Inches
 Fresh water _____ Feet _____ Salt Water 14 80 Feet _____
 Producing Sand Squaw 1777 Depth 1792

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
SAND & Lime			20	450		
Lime shells & SLATE			450	1150		
SAND slate			1150	1220		
SAND SLATE			1220	1450		
MAXON SAND			1450	1468		
SLATE			1468	1500		
Little Lime			1500	1560		
SLATE			1560	1605		
Big lime			1605	1615		
IN TAN			1615	1745		
SLATE			1745	1760		
SQUAW			1760	1777		
			1777 (over)	1792		

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AUG 24 1980

OIL & GAS DIVISION
DEPT. OF MINES
Office of Oil and Gas

JUL 12 2018

Oil WV Department of
Environmental Protection
1703

Indicates Electric Log tops in the remarks section.

TD=1830

TREATMENT REPORT

PRINTED IN U.S.A.
WELL NAME AND NUMBER

DOWELL DIVISION OF THE DOW CHEMICAL COMPANY

LOCATION

015-1758

DATE 10-20-63

W-2

W-2

W-2

1-10-59

W-2

W-2

W-2

Clay

U. Va.

U. Va.

Click Water - 33,000 gal

W-2

W-2

W-2

W-2

W-2

FOR CONVERSION PURPOSES 24 BBLs EQUALS 1000 GALLONS

ARRIVED ON LOCATION: 0315

TIME	INJECTION		PRESSURE	LIQUID (A)	SERVICE	(C) PROPPING AGENT OR (D) PLUGGING SERVICE			
	RATE	BBLs IN				FLA. CONC.	TYPE	SIZE	CONC.
1055	-	0	0	X F W	Hooked up				
1057	-	10	-	S L W	Load				
1059	-	19	0	"	Test conn.	J-100	2.05		
1057	-	13	400	"	Flow				
1103	0.0	0	1500	S L W	Flow	J-100	2.05	8	20-40
1109	31.0	31	1500	"	"	"	"	"	1.0
1110	32.0	63	1500	"	"	"	"	"	1.25
1112	32.0	127	1500	"	"	"	"	"	1.5
1114	33.0	193	1500	"	"	"	"	"	1.5
1116	33.0	259	1500	"	"	"	"	"	1.75
1118	32.0	323	1500	"	"	"	"	"	1.25
1120	32.0	387	1600	"	"	"	"	"	1.25
1124	32.0	515	1600	"	"	"	"	"	1.5
1128	31.0	643	1600	"	"	"	"	"	1.5
1130	30.0	703	1700	"	Flush	"	"	"	
1132	30.0	763	1900	"	Job complete	"	"	"	

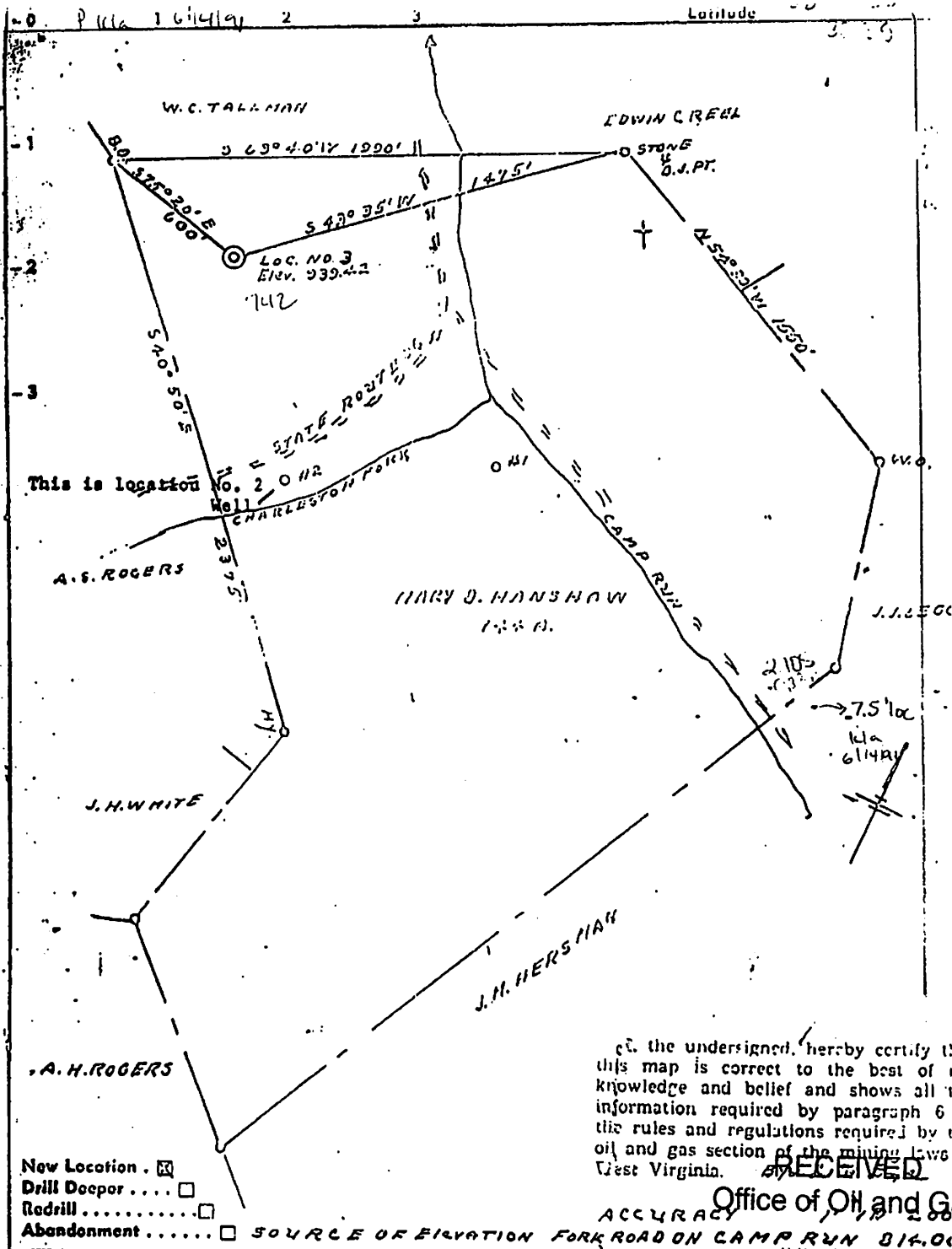
TIME LEFT LOCATION	1215	AVER. LIQUID INJ. RATE	30.2	31.9	PROPS AND LIQUIDS INJECTED
MAX. PRESSURE	1900	AFTER PRESSURE	1563	1850	Click Water carry sand
DOWELL LOCATION	Olenville	DOWELL TAG NO.	W-2	500	Sand
					20-40
					1.0000

(A) NOTE: SEE (AA) FOR SPECIAL ADDITIVES	AA. ADDITIVES	BB. ADDITIVES	CC. ADDITIVES	DD. ADDITIVES	EE. ADDITIVES
MA-MUD ACID	WF-WATERFRAC	GA-GEL	HA-HALOTRAC	IA-IRON	JA-JELLED
MB-MCL ACID	MB-MBI GEL	GB-GEL	HB-HALOTRAC	IB-IRON	JB-JELLED
MC-METACID	MC-METACID	GC-GEL	MC-METACID	IC-IRON	JC-JELLED
MD-METACID	MD-METACID	GD-GEL	MD-METACID	ID-IRON	JD-JELLED
ME-METACID	ME-METACID	GE-GEL	ME-METACID	IE-IRON	JE-JELLED
MF-METACID	MF-METACID	GF-GEL	MF-METACID	IF-IRON	JE-JELLED
MG-METACID	MG-METACID	GG-GEL	MG-METACID	IG-IRON	JE-JELLED
MH-METACID	MH-METACID	GH-GEL	MH-METACID	IH-IRON	JE-JELLED
MI-METACID	MI-METACID	HH-GEL	MI-METACID	II-IRON	JE-JELLED
MJ-METACID	MJ-METACID	HH-GEL	MJ-METACID	IJ-IRON	JE-JELLED
MK-METACID	MK-METACID	HH-GEL	MK-METACID	IJ-IRON	JE-JELLED
ML-METACID	ML-METACID	HH-GEL	ML-METACID	IJ-IRON	JE-JELLED
MM-METACID	MM-METACID	HH-GEL	MM-METACID	IJ-IRON	JE-JELLED
MN-METACID	MN-METACID	HH-GEL	MN-METACID	IJ-IRON	JE-JELLED
MO-METACID	MO-METACID	HH-GEL	MO-METACID	IJ-IRON	JE-JELLED
MP-METACID	MP-METACID	HH-GEL	MP-METACID	IJ-IRON	JE-JELLED
MQ-METACID	MQ-METACID	HH-GEL	MQ-METACID	IJ-IRON	JE-JELLED
MR-METACID	MR-METACID	HH-GEL	MR-METACID	IJ-IRON	JE-JELLED
MS-METACID	MS-METACID	HH-GEL	MS-METACID	IJ-IRON	JE-JELLED
MT-METACID	MT-METACID	HH-GEL	MT-METACID	IJ-IRON	JE-JELLED
MU-METACID	MU-METACID	HH-GEL	MU-METACID	IJ-IRON	JE-JELLED
MV-METACID	MV-METACID	HH-GEL	MV-METACID	IJ-IRON	JE-JELLED
MW-METACID	MW-METACID	HH-GEL	MW-METACID	IJ-IRON	JE-JELLED
MX-METACID	MX-METACID	HH-GEL	MX-METACID	IJ-IRON	JE-JELLED
MY-METACID	MY-METACID	HH-GEL	MY-METACID	IJ-IRON	JE-JELLED
MZ-METACID	MZ-METACID	HH-GEL	MZ-METACID	IJ-IRON	JE-JELLED
NA-NITROGEN	NA-NITROGEN	HH-GEL	NA-NITROGEN	IJ-IRON	JE-JELLED
NB-NITROGEN	NB-NITROGEN	HH-GEL	NB-NITROGEN	IJ-IRON	JE-JELLED
NC-NITROGEN	NC-NITROGEN	HH-GEL	NC-NITROGEN	IJ-IRON	JE-JELLED
ND-NITROGEN	ND-NITROGEN	HH-GEL	ND-NITROGEN	IJ-IRON	JE-JELLED
NE-NITROGEN	NE-NITROGEN	HH-GEL	NE-NITROGEN	IJ-IRON	JE-JELLED
NF-NITROGEN	NF-NITROGEN	HH-GEL	NF-NITROGEN	IJ-IRON	JE-JELLED
NG-NITROGEN	NG-NITROGEN	HH-GEL	NG-NITROGEN	IJ-IRON	JE-JELLED
NH-NITROGEN	NH-NITROGEN	HH-GEL	NH-NITROGEN	IJ-IRON	JE-JELLED
NI-NITROGEN	NI-NITROGEN	HH-GEL	NI-NITROGEN	IJ-IRON	JE-JELLED
NJ-NITROGEN	NJ-NITROGEN	HH-GEL	NJ-NITROGEN	IJ-IRON	JE-JELLED
NK-NITROGEN	NK-NITROGEN	HH-GEL	NK-NITROGEN	IJ-IRON	JE-JELLED
NL-NITROGEN	NL-NITROGEN	HH-GEL	NL-NITROGEN	IJ-IRON	JE-JELLED
NM-NITROGEN	NM-NITROGEN	HH-GEL	NM-NITROGEN	IJ-IRON	JE-JELLED
NO-NITROGEN	NO-NITROGEN	HH-GEL	NO-NITROGEN	IJ-IRON	JE-JELLED
NP-NITROGEN	NP-NITROGEN	HH-GEL	NP-NITROGEN	IJ-IRON	JE-JELLED
NQ-NITROGEN	NQ-NITROGEN	HH-GEL	NQ-NITROGEN	IJ-IRON	JE-JELLED
NR-NITROGEN	NR-NITROGEN	HH-GEL	NR-NITROGEN	IJ-IRON	JE-JELLED
NS-NITROGEN	NS-NITROGEN	HH-GEL	NS-NITROGEN	IJ-IRON	JE-JELLED
NT-NITROGEN	NT-NITROGEN	HH-GEL	NT-NITROGEN	IJ-IRON	JE-JELLED
NU-NITROGEN	NU-NITROGEN	HH-GEL	NU-NITROGEN	IJ-IRON	JE-JELLED
NV-NITROGEN	NV-NITROGEN	HH-GEL	NV-NITROGEN	IJ-IRON	JE-JELLED
NW-NITROGEN	NW-NITROGEN	HH-GEL	NW-NITROGEN	IJ-IRON	JE-JELLED
NX-NITROGEN	NX-NITROGEN	HH-GEL	NX-NITROGEN	IJ-IRON	JE-JELLED
NY-NITROGEN	NY-NITROGEN	HH-GEL	NY-NITROGEN	IJ-IRON	JE-JELLED
NZ-NITROGEN	NZ-NITROGEN	HH-GEL	NZ-NITROGEN	IJ-IRON	JE-JELLED
OA-OIL ACID	OA-OIL ACID	HH-GEL	OA-OIL ACID	IJ-IRON	JE-JELLED
OB-OIL ACID	OB-OIL ACID	HH-GEL	OB-OIL ACID	IJ-IRON	JE-JELLED
OC-OIL ACID	OC-OIL ACID	HH-GEL	OC-OIL ACID	IJ-IRON	JE-JELLED
OD-OIL ACID	OD-OIL ACID	HH-GEL	OD-OIL ACID	IJ-IRON	JE-JELLED
OE-OIL ACID	OE-OIL ACID	HH-GEL	OE-OIL ACID	IJ-IRON	JE-JELLED
OF-OIL ACID	OF-OIL ACID	HH-GEL	OF-OIL ACID	IJ-IRON	JE-JELLED
OG-OIL ACID	OG-OIL ACID	HH-GEL	OG-OIL ACID	IJ-IRON	JE-JELLED
OH-OIL ACID	OH-OIL ACID	HH-GEL	OH-OIL ACID	IJ-IRON	JE-JELLED
OI-OIL ACID	OI-OIL ACID	HH-GEL	OI-OIL ACID	IJ-IRON	JE-JELLED
OJ-OIL ACID	OJ-OIL ACID	HH-GEL	OJ-OIL ACID	IJ-IRON	JE-JELLED
OK-OIL ACID	OK-OIL ACID	HH-GEL	OK-OIL ACID	IJ-IRON	JE-JELLED
OL-OIL ACID	OL-OIL ACID	HH-GEL	OL-OIL ACID	IJ-IRON	JE-JELLED
OM-OIL ACID	OM-OIL ACID	HH-GEL	OM-OIL ACID	IJ-IRON	JE-JELLED
ON-OIL ACID	ON-OIL ACID	HH-GEL	ON-OIL ACID	IJ-IRON	JE-JELLED
OO-OIL ACID	OO-OIL ACID	HH-GEL	OO-OIL ACID	IJ-IRON	JE-JELLED
OP-OIL ACID	OP-OIL ACID	HH-GEL	OP-OIL ACID	IJ-IRON	JE-JELLED
OQ-OIL ACID	OQ-OIL ACID	HH-GEL	OQ-OIL ACID	IJ-IRON	JE-JELLED
OR-OIL ACID	OR-OIL ACID	HH-GEL	OR-OIL ACID	IJ-IRON	JE-JELLED
OS-OIL ACID	OS-OIL ACID	HH-GEL	OS-OIL ACID	IJ-IRON	JE-JELLED
OT-OIL ACID	OT-OIL ACID	HH-GEL	OT-OIL ACID	IJ-IRON	JE-JELLED
OU-OIL ACID	OU-OIL ACID	HH-GEL	OU-OIL ACID	IJ-IRON	JE-JELLED
OV-OIL ACID	OV-OIL ACID	HH-GEL	OV-OIL ACID	IJ-IRON	JE-JELLED
OW-OIL ACID	OW-OIL ACID	HH-GEL	OW-OIL ACID	IJ-IRON	JE-JELLED
OX-OIL ACID	OX-OIL ACID	HH-GEL	OX-OIL ACID	IJ-IRON	JE-JELLED
OY-OIL ACID	OY-OIL ACID	HH-GEL	OY-OIL ACID	IJ-IRON	JE-JELLED
OZ-OIL ACID	OZ-OIL ACID	HH-GEL	OZ-OIL ACID	IJ-IRON	JE-JELLED
PA-PERFORMIC ACID	PA-PERFORMIC ACID	HH-GEL	PA-PERFORMIC ACID	IJ-IRON	JE-JELLED
PB-PERFORMIC ACID	PB-PERFORMIC ACID	HH-GEL	PB-PERFORMIC ACID	IJ-IRON	JE-JELLED
PC-PERFORMIC ACID	PC-PERFORMIC ACID	HH-GEL	PC-PERFORMIC ACID	IJ-IRON	JE-JELLED
PD-PERFORMIC ACID	PD-PERFORMIC ACID	HH-GEL	PD-PERFORMIC ACID	IJ-IRON	JE-JELLED
PE-PERFORMIC ACID	PE-PERFORMIC ACID	HH-GEL	PE-PERFORMIC ACID	IJ-IRON	JE-JELLED
PF-PERFORMIC ACID	PF-PERFORMIC ACID	HH-GEL	PF-PERFORMIC ACID	IJ-IRON	JE-JELLED
PG-PERFORMIC ACID	PG-PERFORMIC ACID	HH-GEL	PG-PERFORMIC ACID	IJ-IRON	JE-JELLED
PH-PERFORMIC ACID	PH-PERFORMIC ACID	HH-GEL	PH-PERFORMIC ACID	IJ-IRON	JE-JELLED
PI-PERFORMIC ACID	PI-PERFORMIC ACID	HH-GEL	PI-PERFORMIC ACID	IJ-IRON	JE-JELLED
PJ-PERFORMIC ACID	PJ-PERFORMIC ACID	HH-GEL	PJ-PERFORMIC ACID	IJ-IRON	JE-JELLED
PK-PERFORMIC ACID	PK-PERFORMIC ACID	HH-GEL	PK-PERFORMIC ACID	IJ-IRON	JE-JELLED
PL-PERFORMIC ACID	PL-PERFORMIC ACID	HH-GEL	PL-PERFORMIC ACID	IJ-IRON	JE-JELLED
PM-PERFORMIC ACID	PM-PERFORMIC ACID	HH-GEL	PM-PERFORMIC ACID	IJ-IRON	JE-JELLED
PN-PERFORMIC ACID	PN-PERFORMIC ACID	HH-GEL	PN-PERFORMIC ACID	IJ-IRON	JE-JELLED
PO-PERFORMIC ACID	PO-PERFORMIC ACID	HH-GEL	PO-PERFORMIC ACID	IJ-IRON	JE-JELLED
PP-PERFORMIC ACID	PP-PERFORMIC ACID	HH-GEL	PP-PERFORMIC ACID	IJ-IRON	JE-JELLED
PQ-PERFORMIC ACID	PQ-PERFORMIC ACID	HH-GEL	PQ-PERFORMIC ACID	IJ-IRON	JE-JELLED
PR-PERFORMIC ACID	PR-PERFORMIC ACID	HH-GEL	PR-PERFORMIC ACID	IJ-IRON	JE-JELLED
PS-PERFORMIC ACID	PS-PERFORMIC ACID	HH-GEL	PS-PERFORMIC ACID	IJ-IRON	JE-JELLED
PT-PERFORMIC ACID	PT-PERFORMIC ACID	HH-GEL	PT-PERFORMIC ACID	IJ-IRON	JE-JELLED
PV-PERFORMIC ACID	PV-PERFORMIC ACID	HH-GEL	PV-PERFORMIC ACID	IJ-IRON	JE-JELLED
PW-PERFORMIC ACID	PW-PERFORMIC ACID	HH-GEL	PW-PERFORMIC ACID	IJ-IRON	JE-JELLED
PX-PERFORMIC ACID	PX-PERFORMIC ACID	HH-GEL	PX-PERFORMIC ACID	IJ-IRON	JE-JELLED
PY-PERFORMIC ACID	PY-PERFORMIC ACID	HH-GEL	PY-PERFORMIC ACID	IJ-IRON	JE-JELLED
PZ-PERFORMIC ACID	PZ-PERFORMIC ACID	HH-GEL	PZ-PERFORMIC ACID	IJ-IRON	JE-JELLED
QA-QUALITY CONTROL	QA-QUALITY CONTROL	HH-GEL	QA-QUALITY CONTROL	IJ-IRON	JE-JELLED
QB-QUALITY CONTROL	QB-QUALITY CONTROL	HH-GEL	QB-QUALITY CONTROL	IJ-IRON	JE-JELLED
QC-QUALITY CONTROL	QC-QUALITY CONTROL	HH-GEL	QC-QUALITY CONTROL	IJ-IRON	JE-JELLED
QD-QUALITY CONTROL	QD-QUALITY CONTROL	HH-GEL	QD-QUALITY CONTROL	IJ-IRON	JE-JELLED
QE-QUALITY CONTROL	QE-QUALITY CONTROL	HH-GEL	QE-QUALITY CONTROL	IJ-IRON	JE-JELLED
QF-QUALITY CONTROL	QF-QUALITY CONTROL	HH-GEL	QF-QUALITY CONTROL	IJ-IRON	JE-JELLED
QG-QUALITY CONTROL	QG-QUALITY CONTROL	HH-GEL	QG-QUALITY CONTROL	IJ-IRON	JE-JELLED
QH-QUALITY CONTROL	QH-QUALITY CONTROL	HH-GEL	QH-QUALITY CONTROL	IJ-IRON	JE-JELLED
QI-QUALITY CONTROL	QI-QUALITY CONTROL	HH-GEL	QI-QUALITY CONTROL	IJ-IRON	JE-JELLED
QJ-QUALITY CONTROL	QJ-QUALITY CONTROL	HH-GEL	QJ-QUALITY CONTROL	IJ-IRON	JE-JELLED
QK-QUALITY CONTROL	QK-QUALITY CONTROL	HH-GEL	QK-QUALITY CONTROL	IJ-IRON	JE-JELLED
QL-QUALITY CONTROL	QL-QUALITY CONTROL	HH-GEL	QL-QUALITY CONTROL	IJ-IRON	JE-JELLED
QM-QUALITY CONTROL	QM-QUALITY CONTROL	HH-GEL	QM-QUALITY CONTROL	IJ-IRON	JE-JELLED
QN-QUALITY CONTROL	QN-QUALITY CONTROL	HH-GEL	QN-QUALITY CONTROL	IJ-IRON	JE-JELLED
QO-QUALITY CONTROL	QO-QUALITY CONTROL	HH-GEL	QO-QUALITY CONTROL	IJ-IRON	JE-JELLED
QP-QUALITY CONTROL	QP-QUALITY CONTROL	HH-GEL	QP-QUALITY CONTROL	IJ-IRON	JE-JELLED
QQ-QUALITY CONTROL	QQ-QUALITY CONTROL	HH-GEL	QQ-QUALITY CONTROL	IJ-IRON	JE-JELLED
QR-QUALITY CONTROL	QR-QUALITY CONTROL	HH-GEL	QR-QUALITY CONTROL	IJ-IRON	JE-JELLED
QS-QUALITY CONTROL	QS-QUALITY CONTROL	HH-GEL	QS-QUALITY CONTROL	IJ-IRON	JE-JELLED
QT-QUALITY CONTROL	QT-QUALITY CONTROL	HH-GEL	QT-QUALITY CONTROL	IJ-IRON	JE-JELLED
QU-QUALITY CONTROL	QU-QUALITY CONTROL	HH-GEL	QU-QUALITY CONTROL	IJ-IRON	JE-JELLED
QV-QUALITY CONTROL	QV-QUALITY CONTROL	HH-GEL	QV-QUALITY CONTROL	IJ-IRON	JE-JELLED
QW-QUALITY CONTROL	QW-QUALITY CONTROL	HH-GEL	QW-QUALITY CONTROL	IJ-IRON	JE-JELLED
QX-QUALITY CONTROL	QX-QUALITY CONTROL	HH-GEL	QX-QUALITY CONTROL	IJ-IRON	JE-JELLED
QY-QUALITY CONTROL	QY-QUALITY CONTROL	HH-GEL	QY-QUALITY CONTROL	IJ-IRON	JE-JELLED
QZ-QUALITY CONTROL	QZ-QUALITY CONTROL	HH-GEL	QZ-QUALITY CONTROL	IJ-IRON	JE-JELLED

CALL BACK	DATE	CUSTOMER REP CONTACTED	CUSTOMER CONSIDERED	SATISFACTORY	PROD. AFTER TREATMENT	PROD. AFTER TREATMENT
			CONSIDERED	UNKNOWN	100%	100%

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Office of Oil and Gas

JUL 12 2018
WV Department of Environmental Protection



I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all information required by paragraph 6 of the rules and regulations required by the oil and gas section of the mining laws of West Virginia.

RECEIVED

Office of Oil and Gas

- New Location
- Drill Deeper
- Redrill
- Abandonment

ACCURACY SOURCE OF ELEVATION FORK ROAD ON CAMP RUN DIST. CO.

Company HANSHAW OIL & GAS CO.
 Address SPENSER, W. VA.
 Farm MARY D. HANSHAW
 Tract _____ Acres 14.5 Lease No. _____
 Well (Farm) No. 2 Serial No. _____
 Elevation (Spirit Level) 939.42
 Quadrangle OTTER Newton 75'
 County CLAY District HENRY
 Engineer G. J. Dyer
 Engineer's Registration No. 304
 File No. _____ Drawing No. _____
 Date 7-8-63 Scale 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 WV Department of
 OIL AND GAS DIVISION
 Environmental Protection

WELL LOCATION MAP
 FILE NO. CLD-1758

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

07/13/2018

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Roy G. Hildreth & Son, Inc. OP Code 307660

Watershed (HUC 10) Sandy Quadrangle Otter

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

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

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: N/A

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. N/A

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? NA

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

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

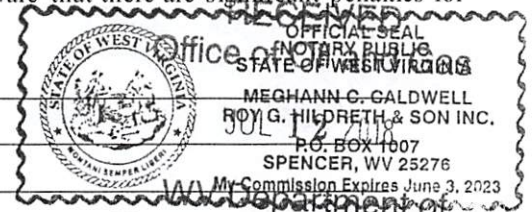
-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, 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 Jon E. Wilder
Company Official (Typed Name) Jon Hildreth
Company Official Title Secretary



Subscribed and sworn before me this 11th day of July, 2018

Meghann C. Caldwell Notary Public

My commission expires June 3, 2023

07/13/2018

Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime _____ Tons/acre or to correct to pH _____

Fertilizer type _____

Fertilizer amount _____ lbs/acre

Mulch _____ Tons/acre

* Rough grade to be left for new surface owner development project.

Seed Mixtures

Temporary

Permanent

Seed Type

lbs/acre

Seed Type

lbs/acre

Seed Type	lbs/acre	Seed Type	lbs/acre
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: Building Dollar Store well to be plug will not be reclaimed as per construction

Title: Inspector M & G

Date: 7-12-18

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JUL 12 2018

Field Reviewed? Yes No

WV Department of Environmental Protection
07/13/2018

1) Date: _____
2) Operator's Well Number
Mary D. Hanshaw #2
3) API Well No.: 47 - 15 - 1758

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name _____	Name _____
Address _____	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
Address _____	Address _____
Telephone _____	Address _____

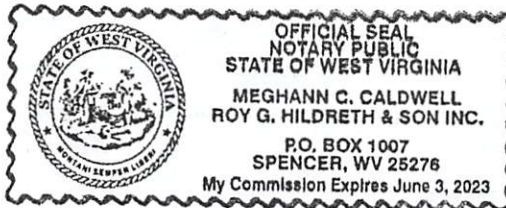
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

RECEIVED
Office of Oil and Gas

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached plat. This Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.



Well Operator Roy G. Hildreth & Son, Inc.
 By: Jon Hildreth
 Its: Secretary
 Address P.O. Box 1007
 Spencer, WV 25276
 Telephone 304-927-2130

Subscribed and sworn before me this 11th day of July, 2018
Meghann C. Caldwell Notary Public
 My Commission Expires June 3rd, 2023

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 depprivacyoffier@wv.gov.

07/13/2018

SURFACE OWNER WAIVER

Operator's Well
Number

Mary D. Hanshaw #2

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (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 **FIVE (5) 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.

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 Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

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
ETC.

FOR EXECUTION BY A CORPORATION,

Dennis C. Sutton
Signature
Dennis Sutton

Date 7-12-18

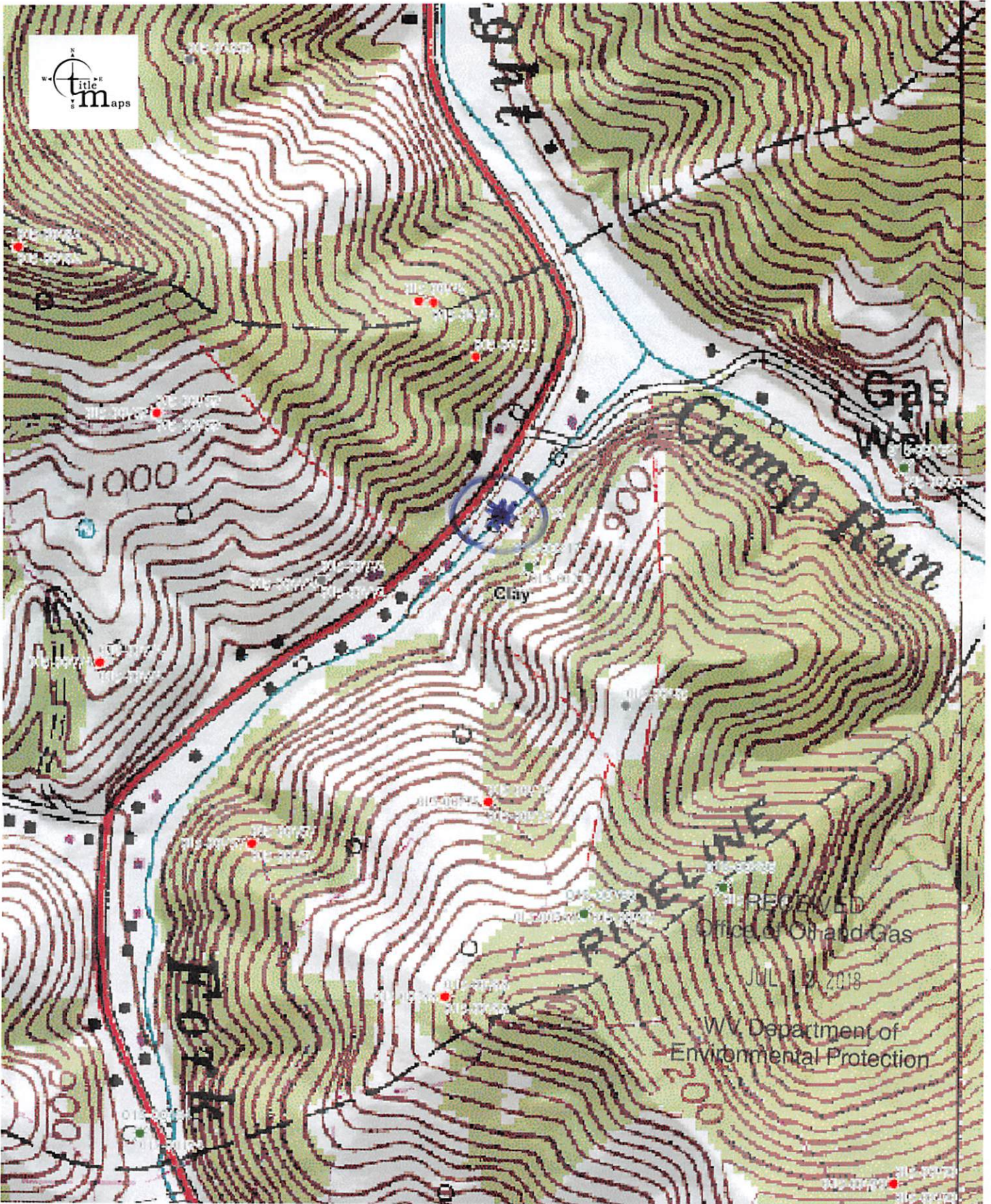
Name
By
Its

Dennis C. Sutton
Signature
Date

07/13/2018
Date

Signature

Mary Hanshaw #2



500ft

Approximate Scale 1:6,000

07/11/2018 - 03:24:33 PM

07/13/2018
Disclaimer: The map information shown is from various sources including but not limited to tax maps and state and federal agency web sites. The map information does not represent and should not be relied upon as a land survey or legal depiction of the property or information shown. Title Maps LLC does not warrant the accuracy or correctness of the map information shown herein.



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-15-1758 WELL NO.: Mary D. Hanshaw #2

FARM NAME: Mary D. Hanshaw

RESPONSIBLE PARTY NAME: Roy G. Hildreth & Son, Inc.

COUNTY: Clay DISTRICT: Henry

QUADRANGLE: Otter

SURFACE OWNER: Dennis Sutton

ROYALTY OWNER: Shirley Escue et. al.

UTM GPS NORTHING: 4266964.5

UTM GPS EASTING: 488576.43 GPS ELEVATION: 800

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

John R. Tilden
Signature

Secretary
Title

7/11/18
Date

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Office of Oil and Gas
JUL 12 2018
WV Department of
Environmental Protection

API No. 47-15-1758
Farm Name Mary D. Hanshaw
Well No. Mary D. Hanshaw #2

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____/ owner ____/ lessee ____/ of the coal under this well location has examined this proposed plugging work order. 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: _____

By: _____

Its _____

*No known operator, owner,
or lessee of workable
coal bed/ seam on this tract.*
RECEIVED
Office of Oil and Gas
JUL 12 2018

WV Department of
Environmental Protection