



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

March 17, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-7300953, issued to PATCHWORK OIL & GAS LLC, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin
Chief

Operator's Well No: KING/DAVIS 1096
Farm Name: KING, JAMES
API Well Number: 47- 7300953
Permit Type: Plugging
Date Issued: 03/17/2015

Promoting a healthy environment.

03/20/2015

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. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

1) Date JULY 29, 2014
2) Operator's
Well No. KING DAVIS H-1096
3) API Well No. 47-073 - 00953 P

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 ___ / Shallow X

5) Location: Elevation 1083 Watershed ALUM CAVE RUN
District JEFFERSON County PLEASANTS Quadrangle SCHULTZ WV 7.5

6) Well Operator PATCHWORK OIL & GAS, LLC 7) Designated Agent PATCHWORK OIL & GAS, LLC
Address 8165 ELIZABETH PIKE Address 8165 ELIZABETH PIKE
ELIZABETH, WV 26143 ELIZABETH, WV 26143

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name JOE TAYLOR Name PATCHWORK OIL & GAS, LLC
Address 1478 CLAYLICK RD Address 8165 ELIZABETH PIKE
RIPLEY, WV 25271 ELIZABETH, WV 26143

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

PLUGGING SCHEMATIC AND PROCEDURE FOR KING DAVIS H-1096 ON NEXT PAGE.

Notification must be given to the district oil and gas inspector 24 hours ^{RECEIVED} permitted work can commence. Office of Oil and Gas

Work order approved by inspector _____



Date FEB 09 2015
1-19-15
WV Department of Environmental Protection

03/20/2015

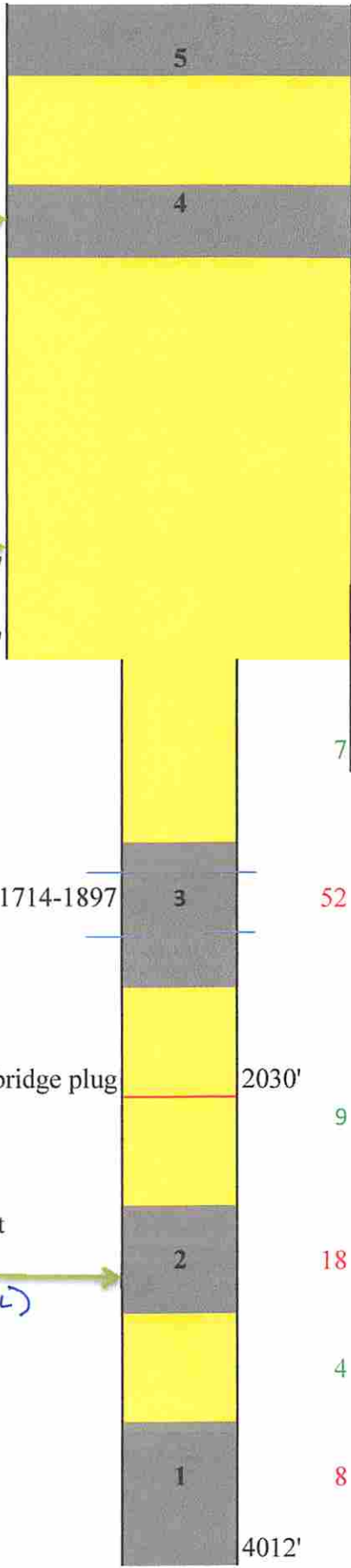
Records show possible cement fill up is at 367' range

Attempt 8 5/8 rip (CUT + PULL)



Elevation behind 8 5/8

1119'



(33) 50lb sacks of 6% gel used
(167) 100lb sacks of cement

15

Plug #5	100-surface
Plug #4	317-417
Plug #3	1664-1947 (Perfs)
Plug #2	2599-2699
7 Plug #1	3912-4012'

[Handwritten signature]
1-19-15

Perfs from 1714-1897

52

Drill out bridge plug

2030'

Records show possible cement fill up is at 2649" range

Attempt 4 1/2 rip (CUT + PULL)



Cement plugs are at a minimum of 100' Class A Cement with no more than 3% CaCl2 and no other additives.

9 Gel spacers between all cement plugs must be fresh water with at least 6% Bentonite by weight

18

4

8

█ : Cement
█ : Gel
— : Bridge Plug (if any)

4012'

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WV Department of
Environmental Protection

WR-35 RECEIVED WV Division of Environmental Protection

22-Jan-96 API # 47- 73-00953 F

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

Permitting Office of Oil & Gas Well Operator's Report of Well Work

Farm name: KING, JAMES Operator Well No.: KING/DAVIS#1096

LOCATION: Elevation: 1,083.00 Quadrangle: SCHULTZ

District: JEFFERSON County: PLEASANTS Latitude: 700 Feet South of 39 Deg. 20Min. 0 Sec. Longitude 3040 Feet West of 81 Deg. 12 Min. 30 Sec.

Company: HUFECO, INCORPORATED P. O. BOX 144 DAVISVILLE, WV 26142-0144

Agent: TIMOTHY C. HUFFMAN

Inspector: SAM HERSMAN Permit Issued: 01/26/96 Well work Commenced: 5/1/96 Well work Completed: 5/30/96 Verbal Plugging Permission granted on: Rotary Cable Rig Total Depth (feet) Fresh water depths (ft) Salt water depths (ft) Is coal being mined in area (Y/N)? Coal Depths (ft):

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement Fill Up Cu. Ft. Rows include 8-5/8" (1119' drilling, 1119' left, 160sk. cement) and 4-1/2" (4012' left, 290sk. cement). Includes a vertical arrow labeled 'Existing' pointing to the 4-1/2" section.

Handwritten notes: up to 367', up to 2649'

OPEN FLOW DATA

Producing formation Pocono Pay zone depth (ft) 1840 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 Second producing formation Maxton Pay zone depth (ft) 1720 Gas: Initial open flow MCF/d Oil: Initial open flow Bbl/d Final open flow 10 MCF/d Final open flow 2 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.

For: HUFECO, INCORPORATED By: A.J. Salata, Consultant Date: 9/29/96

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7300953P

Temporary Bridge Plug: 4-1/2" Solid Bridge Plug set @ 2030'.

Squeeze Cmt: 150sks. Reg. neat cmt. Top of cement 1350'

Perforated Interval: Pocono (1887'-97') 18 holes
Maxton (1714'-24') 18 holes

Fracturing Treatment: Pocono 500 gals. 7-1/2% HCL acid, 75 Quality Foam,
Breakdown Press: 3330#, Avg. Press: 2950#, Avg. Rate: 20 BPM, 26800 lbs.
20/40 sand, 280,000 SCF N2, ISLP: 2160

Maxton 500 gals. 7-1/2% HCL acid, 75 Quality Foam,
Breakdown Press: 4000#, Avg. Press: 2470#, Avg. Rate: 20 BPM, 25120 lbs,
20/40 sand, 211, 1000 SCF N2, ISLP: 2150#

See original IV-35 State Report for additional formation information
and flow data.

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WV Department of
Environmental Protection
03/20/2015

WW-4A
Revised 6-07

1) Date: JULY 29, 2014
2) Operator's Well Number
KING DAVIS H-1096

3) API Well No.: 47 - 073 - 00953

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

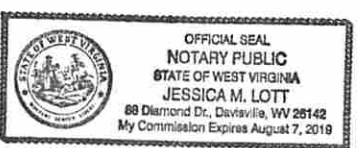
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>See</u>	Name _____
Address <u>Attached</u>	Address _____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
(c) Name _____	Address _____
Address _____	Name _____
Address _____	Address _____
6) Inspector <u>JOE TAYLOR</u>	(c) Coal Lessee with Declaration
Address <u>1478 CLAYLICK RD</u>	Name _____
<u>RIPLEY, WV 25271</u>	Address _____
Telephone <u>304-380-7469</u>	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.

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 Form WW-6. Copies of 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 PATCHWORK OIL & GAS, LLC
 By: ROGER L. WHITED
 Its: MEMBER
 Address 8165 ELIZABETH PIKE
ELIZABETH, WV 26143
 Telephone 304-275-4446

Subscribed and sworn before me this 29 day of July, 2014
[Signature] Notary Public
 My Commission Expires Aug. 7, 2019

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Office of Oil and Gas

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.

FEB 09 2015

73 00953P

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Robert : Georgia
Steele Jr
31107 Cow Creek Rd
St Marys, LOU 26170

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Robert Steele Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
9/22/14

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Joseph King ✓
1508 Canyon Lake
Santa Ana, CA 92705

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Rebecca King Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
Rebecca King

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ridgwood Dev. : Robert Hammitt
Sam Hammitt
955 Bull Creek Rd.
Waverly, LOU 26184

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [Signature] Agent Addressee

B. Received by (Printed Name) C. Date of Delivery
S C Hammitt 9/22/14

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540



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Department of Environmental Protection
05/20/2015

Search By District, Map, and Parcel

County: Pleasants District: 3 Map: 10 Parcel: 19 SubParcel: Tax Year: 2014 Date: 7/30/2014

1/4

1/4

1/8

1/8

1/4

DIST NAME	DIST	MAP	PARCEL	OWNER	ADDRESS	LOC	BOOK	PAGE	LEGAL DESC	ACCT	CLASS	SALE DATE	APR MIN	APR LAND	APR BUILD	APR TOTAL	PROP TAX
JEFFERSON	3	10	19	HAMMETT SAMUEL C & SHERRI L	955 BULL CREEK RD, WAVERLY, WV 26184	CO RD 1/3	257	51	150F COW CREEK 1/2 OF 1/2 UND INT		3		\$83	\$29,100		\$29,183	\$430.75
JEFFERSON	3	10	19	KING JOSEPH A	1508 CANYON LAKE, SANTA ANA, CA 92705	CO RD 1/3	237	235	150F COW CREEK 1/2 OF 1/2 UND INT		3		\$83	\$29,100		\$29,183	\$430.75
JEFFERSON	3	10	19	STEELE ROBERT L JR & GEORGIA	5167 COW CREEK RD, SAINT MARYS, WV 26170	CO RD 1/3	283	96	150F COW CREEK 1/4 OF 1/2 UND INT		3		\$33	\$14,550		\$14,583	\$215.25
JEFFERSON	3	10	19	RIDGEWOOD DEVELOPMENT LLC	955 BULL CREEK RD, WAVERLY, WV 26184	CO RD 1/3	285	671	150F COW CREEK 1/4 OF 1/2 UND INT		3		\$33	\$14,550		\$14,583	\$215.25
JEFFERSON	3	10	19	HAMMETT ROBERT E C/O SAMUEL HAMMETT	955 BULL CREEK RD, WAVERLY, WV 26184	CO RD 1/3	257	51	150F COW CREEK 1/2 OF 1/2 INT		3		\$83	\$29,100		\$29,183	\$430.75

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7/30/2014

03/20/2015

73009531

WW-9
Rev. 5/08

Page 1 of 1
API Number 47 - 073 - 00953
Operator's Well No. KING DAVIS H-1096

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 PATCHWORK OIL & GAS, LLC OP Code 494466991

Watershed ALUM CAVE RUN Quadrangle ST. MARY'S 15'

Elevation 1083' County PLEASANTS District SCHULTZ WV 7.5

Description of anticipated Pit Waste: FLUIDS USED IN AN ASSOCIATED WITH PLUGGING

Will a synthetic liner be used in the pit? YES 20ml.

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 _____)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

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 *Roger L. Whited*

Company Official (Typed Name) ROGER L. WHITED

Company Official Title MEMBER

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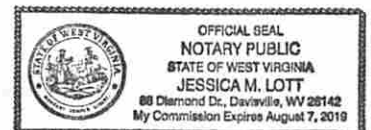
FEB 09 2015

Subscribed and sworn before me this 29 day of July, 2014

J. Mott Notary Public

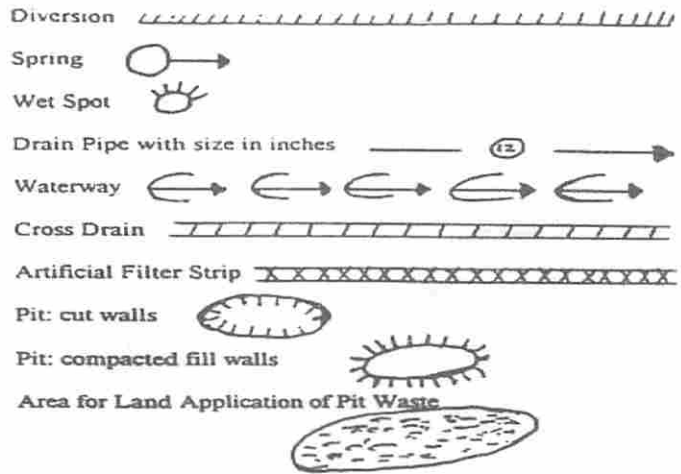
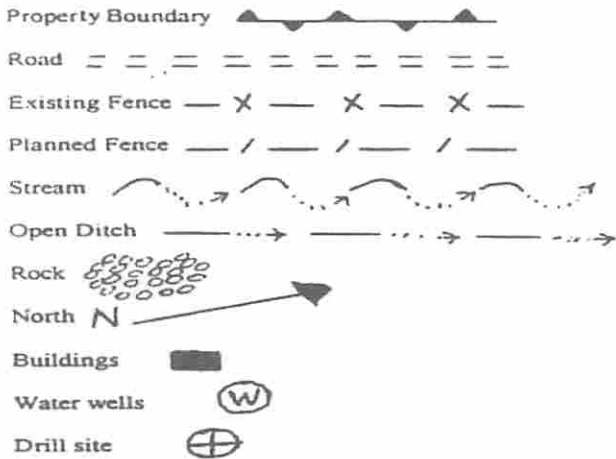
WV Department of
Environmental Protection

My commission expires Aug. 7, 2019



03/20/2015

LEGEND



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH 6.4

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum)

Mulch STRAW Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
LADINO CLOVER	5		
TALL FESCUE	40		

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: _____

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Title: COG Inspector

Date: 1-19-15

WV Department of
Environmental Protection

Field Reviewed? () Yes () No

7300953P



[Handwritten signature]
1-15-15

King Davis H-1096 location

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03/20/2015

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-073-00953 WELL NO.: H-1096

FARM NAME: KING DAVIS

RESPONSIBLE PARTY NAME: PATCHWORK OIL & GAS, LLC

COUNTY: PLEASANTS DISTRICT: JEFFERSON

QUADRANGLE: ST MARY'S 15'

SURFACE OWNER: _____

ROYALTY OWNER: SAMUEL HAMMETT & ROBERT HAMMETT

UTM GPS NORTHING: 4353589.8

UTM GPS EASTING: 481141.4 GPS ELEVATION: 1083'

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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method: XX
Survey grade GPS ____: Post Processed Differential XX

Real-Time Differential _____

Mapping Grade GPS ____: Post Processed Differential _____

Real-Time Differential _____

- 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.

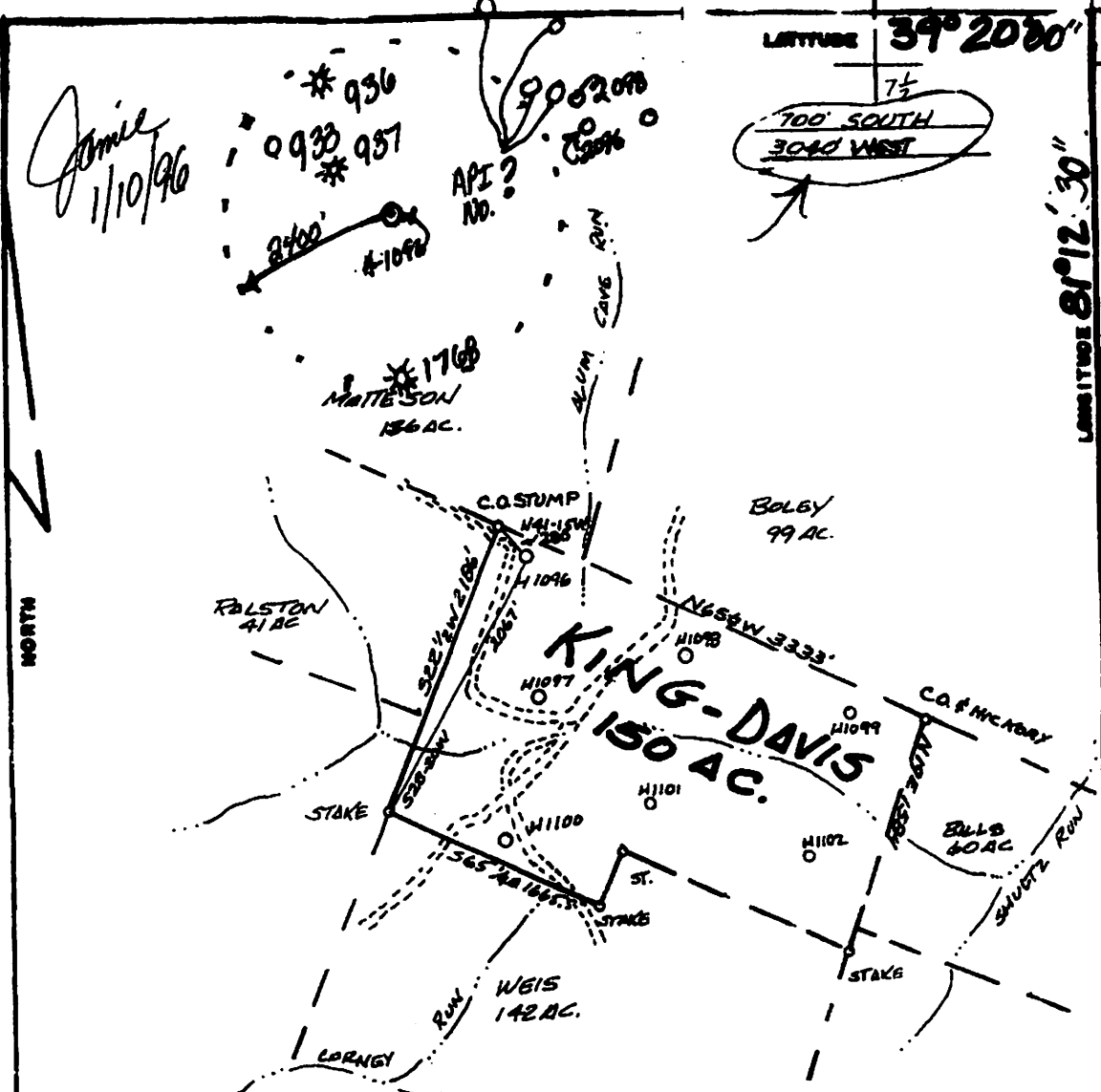
[Signature]
Signature

OFFICE MANAGER
Title

7-29-2014
Date

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WV Department of Environmental Protection

03/20/2015



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:2.00
 PROVEN SOURCE OF ELEVATION 191981

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 MINES.
 (SIGNED) Willie R. Marshall
 R.P.E. _____ L.L.S. SE1

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE 29 AUGUST, 1980
 OPERATOR'S WELL NO. H-1096
 API WELL NO. 47-073-009537
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1083 WATER SHED ALUM CREEK RUN
 DISTRICT JEFFERSON COUNTY PLEASANTS
 QUADRANGLE SCHULTZ WVA 7E QUAD. ST. MARY'S 15'
 SURFACE OWNER GRACE C. KING & MAUREC. DAVIS ACREAGE 150
 OIL & GAS ROYALTY OWNER GRACE C. KING & MAUREC. DAVIS LEASE ACREAGE 150
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR
 STIMULATE _____ PLUS OFF OLD FORMATION _____ PERFORATE NEW
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUS AND ABANDON _____ CLEAN OUT AND REPLUS _____
 TARGET FORMATION SHALE ESTIMATED DEPTH 4000'

Hufco, Inc.
 P.O. Box 144
 Davisville, wVa. 26142-0144

Tim Huffman, Agent
 Same Address
 PH. 304-674-5704

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 08/20/2015

PLES 9537