



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

May 22, 2014

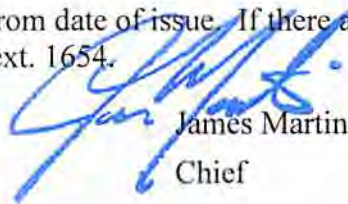
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-1100675, issued to EXCO RESOURCES (PA), 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: DAVIS, LLOYD
Farm Name: DAVIS, EDNA
API Well Number: 47-1100675
Permit Type: Plugging
Date Issued: 05/22/2014

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.
4. This well is under a consent order and must be plugged within two years of the date of issuance of this permit.

CK# 242515
#100

WW-4B
Rev. 2/01

1) Date January 16, 2014
2) Operator's Well No. Lloyd Davis
3) API Well No. 47-031 - 00075

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 ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 781' Watershed Kilgore Creek
District Grant County Cabell Quadrangle Hurricane

6) Well Operator EXCO Resources (PA), LLC 7) Designated Agent Diana Stamper/C.T. Corp Systems
Address PO Box 8 Address 5400 D Big Tyler Road
Ravenswood, WV 26164 Charleston, WV 25301

8) Oil and Gas Inspector to be notified Name Jeremy James
Address PO Box 147
Ona, WV 25545
9) Plugging Contractor Name _____
Address _____

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



- 1. RIH check TD - RIH - fish and pooh 613' of 5 1/2" casing liner- Top of line @ 3171'
 - 2. RIH tbg to + or - 3780' - load hole with 6% gel - rig up and pump 20 sks class A cement 3780'-3638' - pooh tbg to 3300' rig up and pump 20 sks class A cement 3300' - 3158'
 - 3. pooh tbg to 1750' - rig up and pump 25 sks class A cement 1750' - 1630' pooh tbg
 - ~~4.~~ RIH cut 7" casing @ 1200' pooh casing - RIH tbg to 1200' - rig up and pump 35 sks class A cement 1200' - 1050'
 - 5. pooh tbg to 750' - rig up and pump 35 sks class A cement - 750' - 600'
 - 6. pooh tbg to 400' - rig up and pump 35 sks class A cement 400' - 275'
 - 7. pooh tbg to 100' - rig up and pump 35 sks class A cement - 100' - surface. Erect monument with API#
- ~~*~~ pull no more than 300ft. of 7" csg before setting plug 1200 - 1050' *[Signature]*

Received

APR 17 2014

Notification must be given to the district oil and gas inspector ^{Office of Oil and Gas} 24 hours before permitted work can commence. _{WV Dept. of Environmental Protection}

Work order approved by inspector *[Signature]* Date 3-5-14

05/23/2014

Robert W. Rutta

1100675P

OG-10
Rev. 9-71



RECEIVED
DEC - 4 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL RECORD

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

Quadrangle Hurricane 7.5"
Permit No. 47-011-0675

Company Spartan Gas Company
Address P.O. Box 766, Charleston, WV 25323
Farm Lloyd Davis Acres 67
Location (waters) Kilgore Creek
Well No. 1-S-212 Elev. 781.48
District Grant County Cabell
The surface of tract is owned in fee by Lloyd Davis
Address Rt 2 Box 88 B, Milton, WV 25541
Mineral rights are owned by Lloyd Davis
Address Rt 2 Box 88 B Milton, WV
Drilling Commenced September 20, 1980
Drilling Completed November 20, 1980
Initial open flow -0- cu. ft. _____ bbls.
Final production 37 Mcu. ft. per day _____ hbbls.
Well open 19 hrs. before test 415 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. KX-10"	22.8	22.8	
9 5/8			
8 5/8	668	668	100 sks. reg. cement set in red clay
7	1,996	1,996	
5 1/2			
4 1/2			
3			
2			
Liners Used 5 1/2		613	Perforated

Well treatment details:
Shot on 11-18-80 with 5000# 80% gelatin. Top shot 3278'; Bottom shot 3774'
open flow 19-hrs after shot 12/10/80 3.7 MCF

Coal was encountered at None Feet _____ Inches _____
Fresh water _____ Feet _____ Salt Water 320', 820', 850' Feet _____
Producing Sand Devonian Brown Shale Depth 3278' to 3774'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	Remarks
Surface			0	20		
Sand			20	45		
Blue Slate			45	65		
Sand			65	145		
Slate			145	230		
Red Rock			230	300		
Slate			300	320		
Sand			320	350	Water @ 820'	
Slate			350	464		
Sand			464	495		
Slate			495	517		
Red Rock			517	535		
Slate			535	670		
Sand			670	722		
Slate			722	789		
Sand			789	860	Water @ 820'	
Slate			860	870	HFV @ 850'	
Sand			870	904		
Slate			904	925		
Sand			925	981		

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Office of Oil and Gas
WV Dept. of Environmental Protection

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Office of Oil & Gas
Office of Chief

FEB 27 2008

WV Department of
Environmental Protection
05/23/2014

* Indicates Electric Log tops in the remarks section.

(over)

REVISION



Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas, or Water	Remarks
Slate			981	990		
Sand			990	1005		
Slate			1005	1010		
Sand			1010	1020		
Slate			1020	1062		
Sand			1062	1100		
Slate			1100	1125		
Sand			1125	1165		
Slate			1165	1230		
Sand			1230	1248		
Slate			1248	1298		
Sand			1298	1390		
Slate-Shells			1390	1450		
Sand			1450	1636		
Little Lime			1636	1660		
Slate			1660	1670		
Big Lime			1670	1838		
Injun Sand			1838	1950		
Slate-Shells			1950	2355		
Coffe Shale			2355	2375		
Berea Sand			2375	2400		
Slate			2400	3340		
Brown Shale			3340	3735		
Slate			3735	3779		
ELECTRIC LOG TOPS						
Berea			2376	2400		
Brown Shale			3326	3346		
Gray Shale			3346	3410		
Brown Shale			3410	3740		
White Slate			3740	3784		
Log T.D.				3784		

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Office of Oil and Gas
WV Dept. of Environmental Protection

Date November 24, 1980

APPROVED BY William M. Ryan Geologist
SPARTAN GAS COMPANY Owner

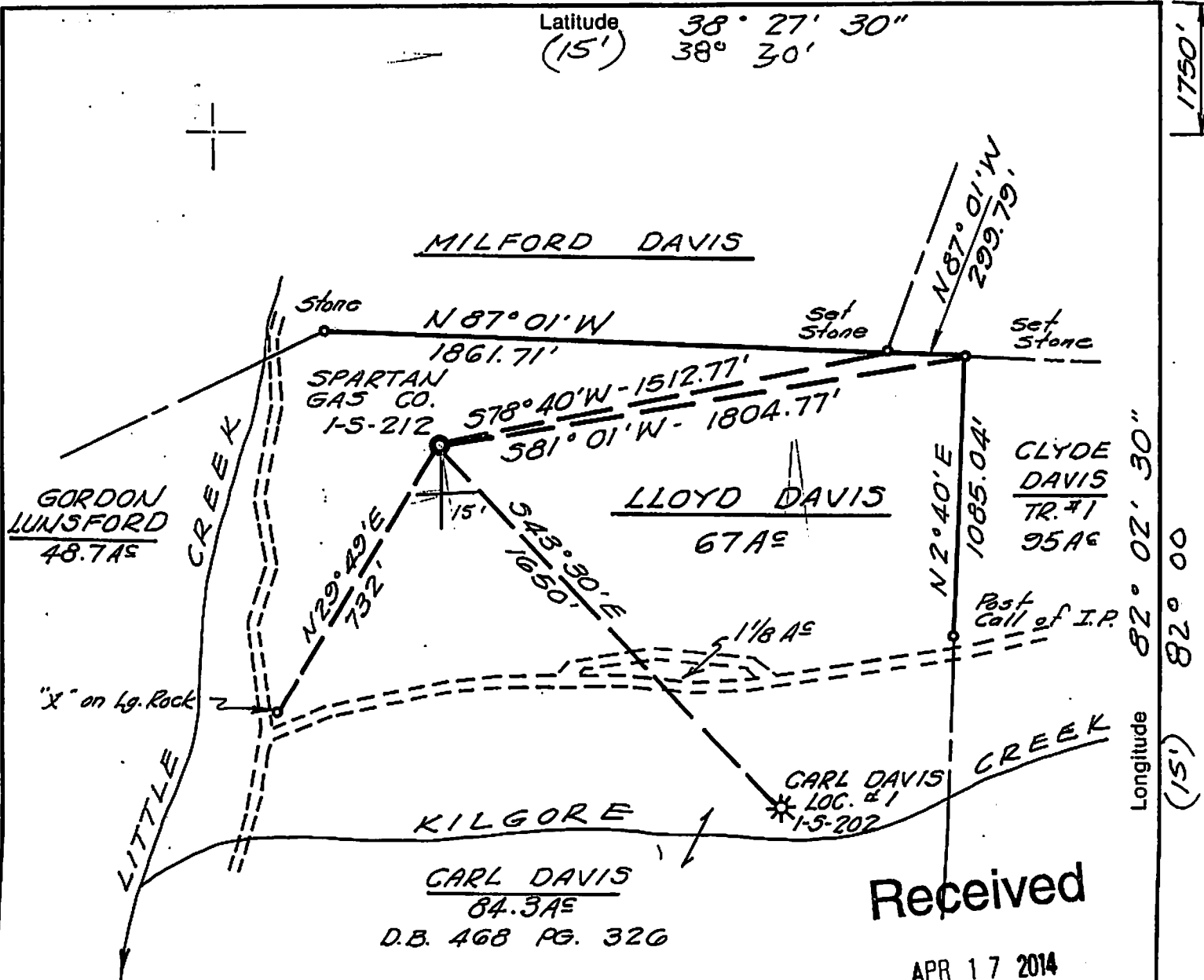
2-35

12,550' 1109-12-80

1100675P

Latitude 38° 27' 30" (15') 38° 30'

1750'



Longitude 82° 02' 30" (15') 82° 00'

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APR 17 2014

Office of Oil and Gas WV Dept. of Environmental Protection

BENCH MARK

ELEVATION TAKEN FROM CARL DAVIS LOC. #1. ELEV. AT LOC #1 - 606.80

RECEIVED Office of Oil & Gas Office of Chief FEB 27 2006 WV Department of Environmental Protection

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by the rules and regulations of the oil and gas section of the mining laws of W. VA. Minimum degree of accuracy is one part in 200

SURVEYOR'S REG. NO. 259 Signed Jarrod R. Clendenen

NORTHCOAST EASTERN ENERGY,

Company INC.
 Address RAVENSWOOD, WV 26164
 Farm LLOYD DAVIS
 Lease _____ Acres 67
 Well Farm No. 1 Ser. No. 1-5-212
 Elevation - Spirit Level 781.48' MILTON 15'
 Quadrangle HURRICANE 7 1/2
 Township or District GRANT
 County CABELL
 Sec., Lot, Qr. _____ T _____ R _____
 Coordinates _____
 File No. 80-2-145 Dwg. No. _____
 Date SEPT. 11, 1980 Scale 1" = 500'

WELL LOCATION MAP STATE OF WEST VIRGINIA

(+) Denotes Values Of Well On United States Topographic Maps

011-0675P

Scale 15' 7 1/2'

2390 BEREA

05/23/2014

1100675P

WW-4A
Revised 6-07

1) Date: January 16, 2014
2) Operator's Well Number Lloyd Davis

3) API Well No.: 47 - 011 - 00675

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>Edna Davis</u>	Name _____
Address <u>1097 Kilgore Creek Rd</u>	Address _____
<u>Milton, WV 25541</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Jeremy James</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 147</u>	Name _____
<u>Ona, WV 25545</u>	Address _____
Telephone <u>304-951-2596</u>	_____

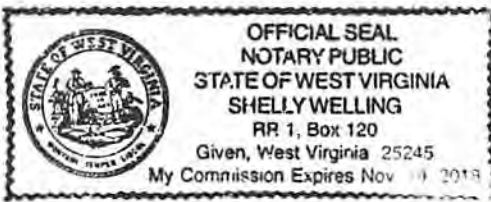
TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (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 EXCO Resources (PA), LLC
 By: Rick Green
 Its: Construction Specialist I
 Address PO Box 8
Ravenswood, WV 26164
 Telephone 304-273-5371



Received

Subscribed and sworn before me this 19th day of Feb 2014
Shelly Welling Notary Public
 My Commission Expires 11/19/18

APR 17 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

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.

05/23/2014

1100675P

WW-9
Rev. 5/08

Page 1 of 6
API Number 47 - 011 - 00675
Operator's Well No. LLOYD DAVIS

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 EXCO Resources (PA), LLC OP Code 307860

Watershed Kilgore Creek Quadrangle Hurricane

Elevation 781' County Cabell District Grant

Description of anticipated Pit Waste: cement, water, gel

Will a synthetic liner be used in the pit? yes 20 MIL

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 pit to be solidified with cement)

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 [Signature]

Company Official (Typed Name) Rick Green

Company Official Title Construction Specialist I

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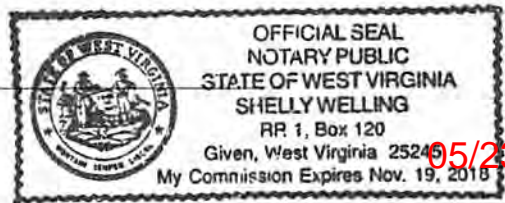
APR 17 2014

Subscribed and sworn before me this 19 day of Feb, 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

[Signature] Notary Public

My commission expires 11/19/18



05/23/2014

LEGEND

- Property Boundary
- Road
- Existing Fence
- Planned Fence
- Stream
- Open Ditch
- Rock
- North
- Buildings
- Water wells
- Drill site

- Diversion
- Spring
- Wet Spot
- Drain Pipe with size in inches
- Waterway
- Cross Drain
- Artificial Filter Strip
- Pit: cut walls
- Pit: compacted fill walls
- Area for Land Application of Pit Waste

Proposed Revegetation Treatment: Acres Disturbed >1 Prevegetation pH _____

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch 2 Tons/acre

Seed Mixtures

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY 31 Fescue	40	same as Area I	
Alsike Clover	5		
Annual Rye	16		

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

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: APR 17 2014

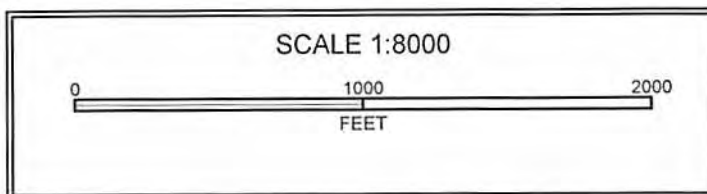
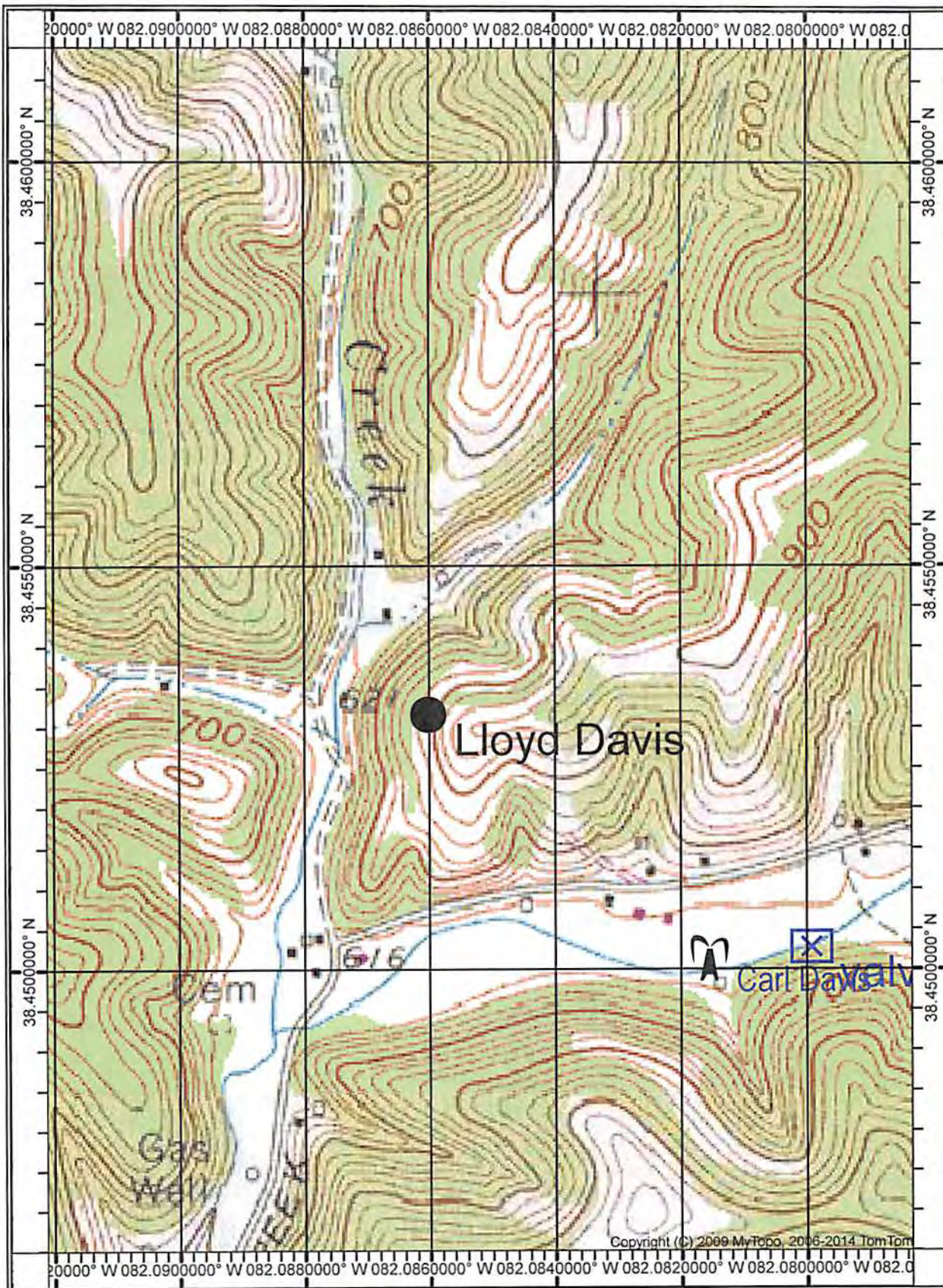
Comments: _____

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: inspector OOG Date: 3-6-14

Field Reviewed? Yes No

1100675P



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APR 17 2014

Office **05/23/2014**
WV Dept. of Environmental Protection

1100675 P

WW-7
8-30-06



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

API: 47-011-00675 WELL NO.: _____

FARM NAME: LLOYD DAVIS

RESPONSIBLE PARTY NAME: Exco Resources

COUNTY: Cabell DISTRICT: Grant

QUADRANGLE: Hurricane 7.5

SURFACE OWNER: Edna Davis

ROYALTY OWNER: LLOYD DAVIS

UTM GPS NORTHING: 4256664.00m

UTM GPS EASTING: 405253.00m GPS ELEVATION: 272m 782 FT.

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 X: Post Processed Differential _____
Real-Time Differential X

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Office of Oil and Gas
WV Dept. of Environmental Protection

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.

R. A. Green construction specialist 4-21-14
Signature Title Date

05/23/2014