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**west virginia** department of environmental protection

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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 09, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-9100360, 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: 1

Farm Name: DAVIS, PAUL R.

**API Well Number: 47-9100360**

**Permit Type: Plugging**

Date Issued: 10/09/2015

**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

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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 under the terms of that agreement.

9100360P

WW-4B  
Rev. 2/01

1) Date June 15, 2015  
2) Operator's  
Well No. DAVIS PAUL 1  
3) API Well No. 47-091 - 00360

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  / Liquid injection  / Waste disposal  /  
(If "Gas, Production  or Underground storage ) Deep  / Shallow
- 5) Location: Elevation 1645' Watershed Three Fork Creek  
District Fetterman County Taylor Quadrangle Gladesville
- 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 Kenneth Greynolds  
Address 613 Broad Run Rd  
Jane Lew, WV 26378
- 9) Plugging Contractor  
Name \_\_\_\_\_  
Address \_\_\_\_\_

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

~~Pull all tubing and rods.  
 RIT to TD 5995' spot 5995' - 5885' cement 30 sks. Pull tubing to 5400' spot 100' plug  
 5400' - 5300' 35 sks. Pull tubing to 3175' cement 3175' - 2975' 20 sks.  
 Cut & pull 4 1/2' at +/- 2500'. RIT cement 2550' - 2450' 33 sks.  
 Pull tubing to 1950' cement 1950' - 1650' 25 sks. Pull tubing to 1175'  
 Cement 1175' - 1075' 25 sks. Pull tubing to 100' to surface 32 sks  
 Set monument with proper API #. Reclaim~~

*DEEP + SPUR 4.5 @*  
 Received *PLUGS IF PIPE WILL NOT*  
 Office of Oil & Gas  
 AUG 20 2015 *WARRANT TO PULL 8 5/8"*

SEE ADDENDUM

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 8-11-15

EXCO Resources (PA), LLC

Davis #1 API 47-091-00360 Plugging

WW-4B Addendum

**10) Work Order:**

Pull all tubing and rods. Run in hole with tubing to Plug Back TD of ~ 5300'. Gel hole to surface.

Set Class A Cement plug from 5220' to 4720' (~ 175 sks) to cover fractures from Elk Sands (Plug 1).

WOC for a minimum of 4 hours. Tag cement top, if it is not at 4720', add more cement.

Pull tubing. Freepoint, cut and pull casing from approximately 2500'. RIH with tubing and set a Class A Cement plug across the casing cut from ~ 2550' to 2450' (33 sks) (Plug 2 – casing cut).

Pull tubing to 1950' and set a Class A Cement plug from 1950' to 1650'. (100 sks)(Elev)(Plug 3).

Pull tubing to 1175' and set a Class A Cement plug from 1175' to 1075'. (33 sks) (8 5/8" casing) (Plug 4).

Pull tubing to 100' and set a Class A Cement plug from 100' to surface. (33 sks) (Plug 5).

Set monument per WV State Code and reclaim site.



IV-35 (Rev 8-81)

RECEIVED DEC 2 - 1983

Date November 18, 1983 Operator's Well No. P. Davis No. 1 Farm API No. 47 - 091 - 0360

State of West Virginia Department of Mines Oil and Gas Division

OIL & GAS DIVISION DEPT. OF MINES

WELL OPERATOR'S REPORT OF DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas / Liquid Injection / Waste Disposal / (If "Gas," Production XX / Underground Storage / Deep / Shallow XX/)

LOCATION: Elevation: 1645' Watershed Three Fork Creek District: Fetterman County Taylor Quadrangle Gladesville

Handwritten signature and number 5-21

COMPANY Swift Energy Company ADDRESS P.O. Box 2201, Clarksburg, WV 26301 DESIGNATED AGENT Tim Bennett ADDRESS 737 Karl St., Weston, WV 26452 SURFACE OWNER Paul R. Davis ADDRESS 606 Winger Court, Edgewood, MD 21040 MINERAL RIGHTS OWNER Same ADDRESS OIL AND GAS INSPECTOR FOR THIS WORK: William Blosser ADDRESS Box:1028, Colfax, WV 26566 PERMIT ISSUED 08-10-83 DRILLING COMMENCED 09-17-83 DRILLING COMPLETED 09-22-83 IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Table with 4 columns: Casing Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Rows include sizes 20-16 Cond., 13-10", 9 5/8, 8 5/8, 7, 5 1/2, 4 1/2, 3, 2 3/8" and Liners used.

GEOLOGICAL TARGET FORMATION Elk Depth 5995 feet Rotary XX / Cable Office of Oil & Gas Water strata depth: Fresh 36;309 feet; Salt feet AUG 20 2015 Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation ELk(s)\* Pay zone depth 5000 feet Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d Final open flow 155 Mcf/d Oil: Final open flow Bbl/d Time of open flow between initial and final tests 4 hours Static rock pressure 1500 psig(surface measurement) after 12 hours shut in (If applicable due to multiple completion--)

\*Gas coninled from formations.

(Continue on reverse side)

Taylor 260

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

9-26-83 4th Elk - 5154'-5160', 5216'-5220', 20,000 SCF N<sub>2</sub>, 10,000# 80-100 SD,  
 32,500# 20-40 SD, 500 GA, 360 BGW.  
 Lower 3rd Elk - 4972'-4976', 4992'-4996', 20,000 SCF N<sub>2</sub>, 10,000# 80-100 SD,  
 32,500# 20-40 SD, 500 GA, 360 BGW.  
 2nd & 3rd Elk - 4784'-4786', 4866'-4870', 4875'-4844', 20,000 SCF N<sub>2</sub>, 10,000#  
 80-100 SD, 32,500# 20-40 SD, 500 GA, 356 BGW.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	1237	Gas test at 1479'-no show
Limestone (Big Lime)			1237	1342	Gas test at 1668'-no show
Big Injun Sandstone			1342	1434	Gas test at 1918'-no show, some odor
Shale			1434	1497	Gas test at 2448'-no show
Weir Sandstone			1497	1597	Gas test at 3104'-no show
Sandstone & Shale			1597	2363	Gas test at 4049'-no show
5th Sand			2363	2420	Gas test at 4924'-no show
Shale & Sandstone			2420	4257	Gas test at 5995'-no show
Benson Sand			4257	4327	
Sandstone & Shale			4327	4832	
3rd Elk Sand			4832	4882	
Sandstone & Shale			4882	5995'	
				T.D.	

Received  
 Office of Oil & Gas  
 AUG 20 2015

(Attach separate sheets as necessary)

SWIFT ENERGY COMPANY  
 Well Operator  
 BY *James M. Kitterman*  
 James M. Kitterman  
 Vice President -  
 Marketing & Production  
 Date: November 18, 1983

Note: Regulation 2.02(i) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including ... encountered in the drilling of a well."

256082  
1000.00  
100.00

91003607

1) Date: June 15, 2015  
2) Operator's Well Number  
DAVIS PAUL 1  
3) API Well No.: 47 - 091 - 00360

**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>Paul R &amp; Wilma Davis Family Irrevocable Trust</u>	Name _____
Address <u>1790 Slab Camp Rd</u>	Address _____
<u>Independence, WV 26374</u> ✓	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Kenneth Greynolds</u>	(c) Coal Lessee with Declaration
Address <u>613 Broad Run Rd</u>	Name _____
<u>Jane Lew WV 26378</u>	Address _____
Telephone <u>304-206-6613</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	<u>EXCO RESOURCES (PA), LLC</u>
By:	<u>Mike Scarbrough</u> <i>Mike Scarbrough</i>
Its:	<u>Surface Landman</u>
Address	<u>PO Box 8</u>
	<u>Ravenswood, WV 26164</u>
Telephone	<u>304-273-5371</u>

**Received**  
**Office of Oil & Gas**  
**AUG 20 2015**



Subscribed and sworn before me this 15 day of June, 2015  
Sandra G. Wilson Notary Public  
My Commission Expires 7/22/2020

**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](mailto:depprivacyoffier@wv.gov).

WW-9  
(2/15)

API Number 47 - 091 - 00360  
Operator's Well No. DAVIS PAUL 1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EXCO Resources (PA), LLC OP Code 307860

Watershed (HUC 10) Three Fork Creek Quadrangle Gladesville

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: surface tank will be used

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

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 \_\_\_\_\_ )

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

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

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-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.

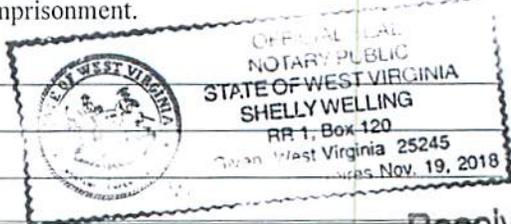
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 Mike Scarbrough

Company Official (Typed Name) Mike Scarbrough

Company Official Title Surface Landman



Subscribed and sworn before me this 31 day of July, 20 15

Shelly Welling

Notary Public

My commission expires 11/19/18

Received  
Office of Oil & Gas  
AUG 20 2015

EXCO Resources (PA), LLC

Proposed Revegetation Treatment: Acres Disturbed >1 Prevegetation pH \_\_\_\_\_

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type \_\_\_\_\_

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
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 (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: RECLAIM, SEED + MULCH ASAP

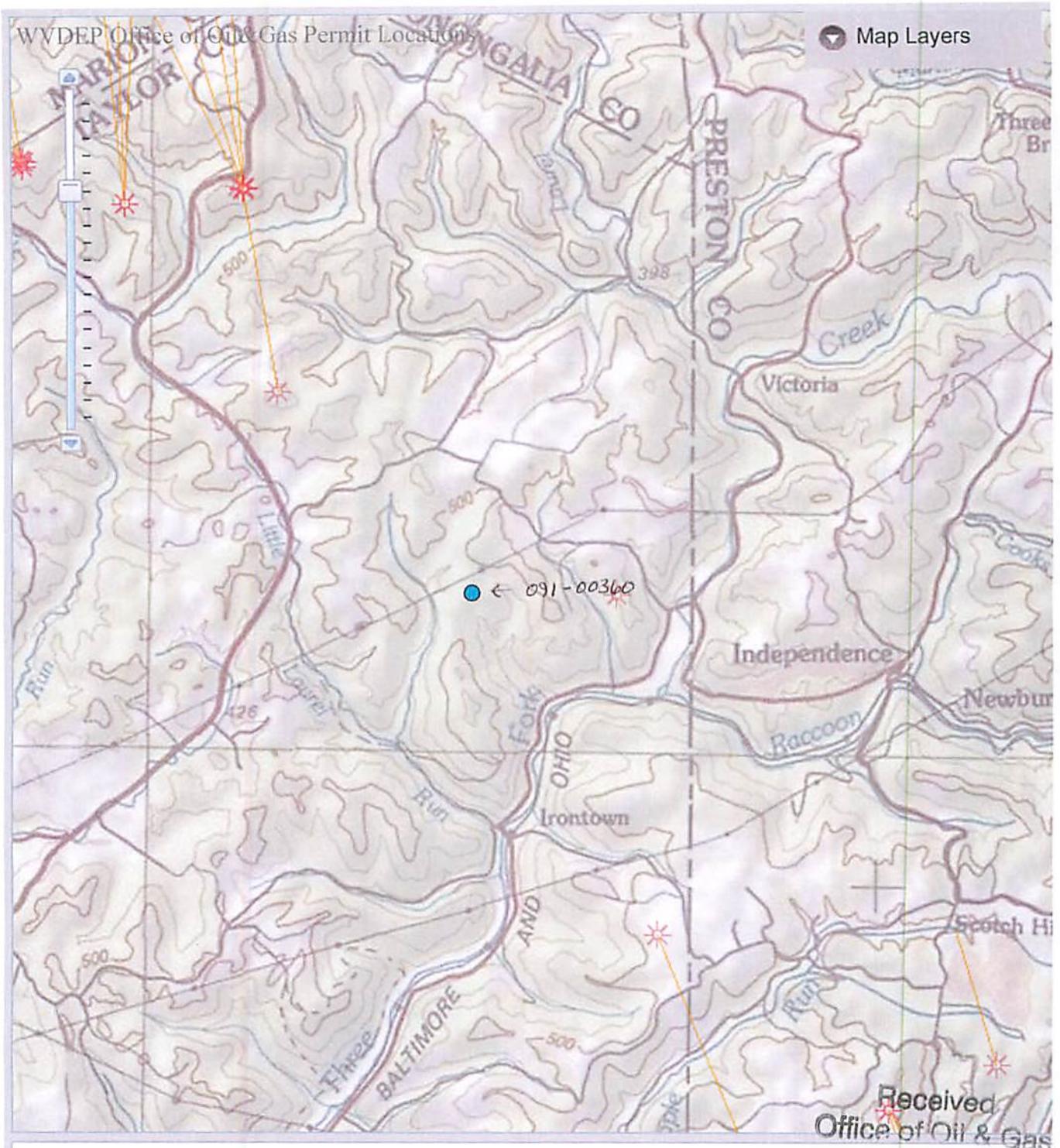
Title: OIL GAS INSPECTION

Date: 8-11-14

Field Reviewed? ( ) Yes (  ) No

Received  
Office of Oil & Gas

AUG 20 2015



Received  
Office of Oil & Gas

Attribute Search   Results   Legend   Location Search   About

AUG 20 2015

API	Permit Type	Received	Issued	Complete	Operator
091-00360	Fracture	NA	1983-09-26	NA	EXCO RESOURCES (WV), INC.
091-00360	Plugging	2008-05-01	NA	NA	EXCO RESOURCES (WV), INC.
091-00360	Other Well	NA	1983-09-22	NA	EXCO RESOURCES (WV), INC.
091-00360	Fracture	NA	1983-09-26	NA	EXCO RESOURCES (WV), INC.
091-00360	Plugging	2008-05-01	NA	NA	EXCO RESOURCES (WV), INC.
091-00360	Other Well	NA	1983-09-22	NA	EXCO RESOURCES (WV), INC.

WW-7  
8-30-06



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

API: 47-091-00360 WELL NO.: P DAVIS 1  
FARM NAME: PAUL R DAVIS  
RESPONSIBLE PARTY NAME: EXCO RESOURCES (PA), LLC  
COUNTY: TAYLOR DISTRICT: FETTERMAN  
QUADRANGLE: GLADESVILLE  
SURFACE OWNER: PAUL R & WILAM DAVIS FAMILY IRREVOCABLE TRUST  
ROYALTY OWNER: Paul R. Davis et al  
UTM GPS NORTHING: 4361693  
UTM GPS EASTING: 593059 GPS ELEVATION: 1731'

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

Received

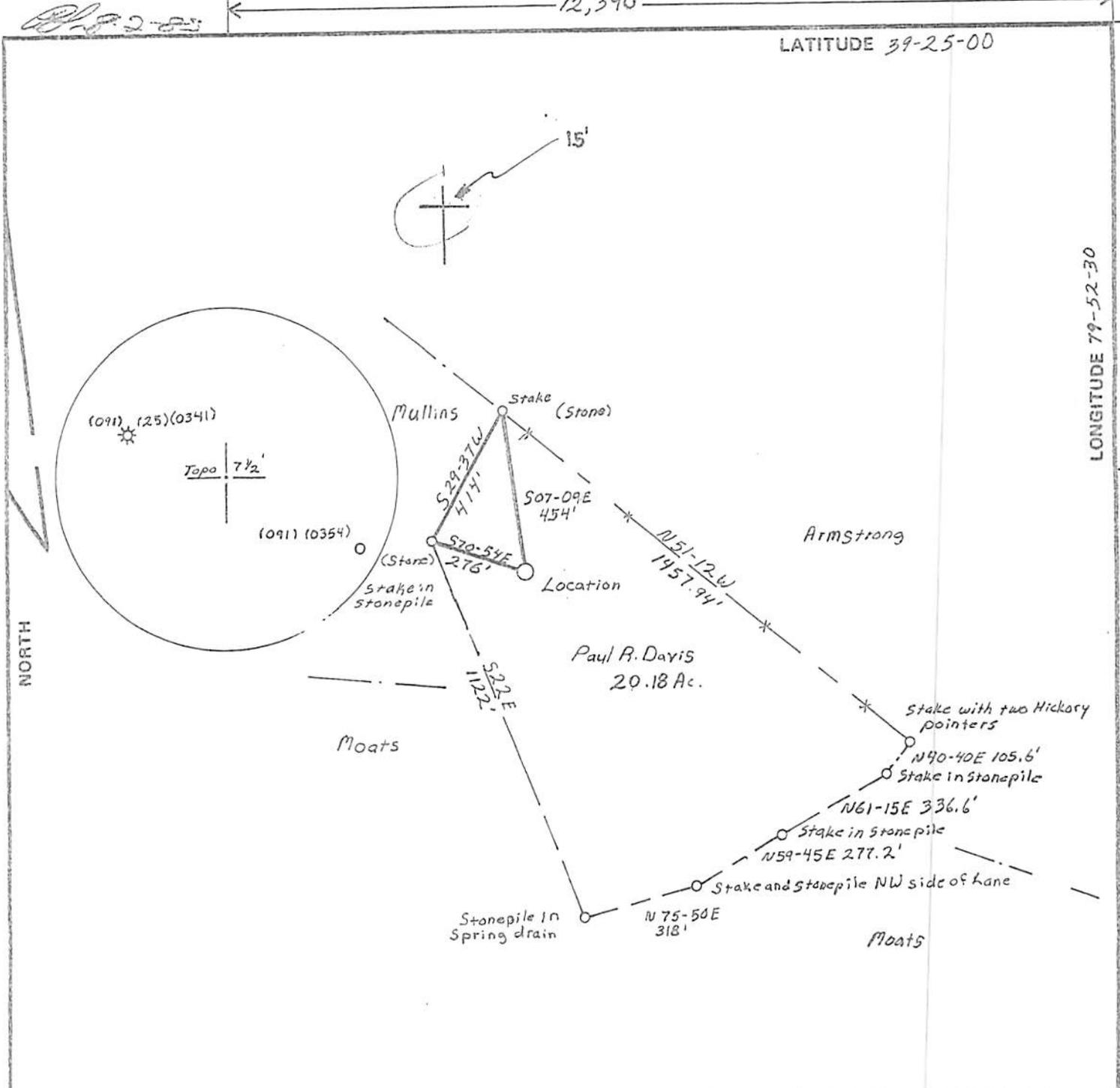
AUG 24 2015

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.

Mike Scarby Signature      Surface Landman Title      8/24/15 Date



FILE NO. 001.01  
 DRAWING NO. 83-15  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Point of knob East of Location ELEV. 1731'

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) David M. Owen  
 R.P.E. \_\_\_\_\_ L.L.S. 743

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

DATE Aug 18, 19 83  
 OPERATOR'S WELL NO. P. Davis #1  
 API WELL NO. \_\_\_\_\_  
47 - 091 - 0350  
 STATE COUNTY **Received**  
**Office of Oil & Gas**  
 AUG 20 2015

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1645' WATER SHED Three Fork Creek  
 DISTRICT Fetterman COUNTY Taylor  
 QUADRANGLE Gladesville Thornton 5-21  
 SURFACE OWNER Paul R. Davis ACREAGE 20.18  
 OIL & GAS ROYALTY OWNER Paul R. Davis LEASE ACREAGE 20.18  
 LEASE NO. WV-0016  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ELK ESTIMATED DEPTH 5900'  
 WELL OPERATOR Swift Energy Co. DESIGNATED AGENT Tim Bennett  
 ADDRESS P.O. Box 1933 ADDRESS P.O. Box 1933  
Clarksburg, WV 26301 Clarksburg, WV 26301

Tay 360