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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

September 09, 2015

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-3902818, 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: 4-W-1091

Farm Name: SUTTON, HARRY

**API Well Number: 47-3902818**

**Permit Type: Plugging**

Date Issued: 09/09/2015

**Promoting a healthy environment.**

09/11/2015

## 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.

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### 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.

1) Date June 15, 2015  
2) Operator's  
Well No. SUTTON H 4  
3) API Well No. 47-039 - 02818

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 1004' Watershed Willis Creek  
District Elk County Kanawha Quadrangle Clendenin

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 Terry Urban  
Address PO Box 1207  
Clendenin, WV 25045  
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 2156', Gel hole
- Cement 2156'-1970' to cover perms, 20 sks
- Cut & pull tubing 4 1/2 at 1600'
- RIT & cement 1650' to 1550' 25 sks
- Pull tubing, Cement 325'-225' 28 sks
- Pull tubing to ~~100'~~ Cement to surface 33 sks *250ft*
- Set monument with proper API #. Reclaim.

Received  
Office of Oil & Gas  
AUG 20 2015

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

Work order approved by inspector *Terry Urban* Date 6-30-15



3902818 P  
**RECEIVED**

AUG 14 1978

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

WELL RECORD 14

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

i-22  
Quadrangle Clendenin  
Permit No. KAN-2818

H-27

Company <u>QUAKER STATE OIL REFINING CORPORATION</u> Address <u>P.O. Box 1327, Parkersburg, WV 26101</u> Farm <u>Harry Sutton</u> Acres <u>43.5</u> Location (waters) <u>Wills Creek</u> Well No. <u>4-W-1091</u> Elev. <u>1004'</u> District <u>Elk</u> County <u>Kanawha</u> The surface of tract is owned in fee by <u>Olive Cobb and Pauline Maddox</u> Address <u>134 Willoughby Ave., Huntington, WV</u> Mineral rights are owned by <u>H. Sutton et al</u> _____ Address _____ Drilling Commenced <u>3/18/78</u> Drilling Completed <u>3/22/78</u> Initial open flow <u>0</u> cu. ft. <u>0</u> bbls. Final production <u>22.5M</u> cu. ft. per day <u>15</u> bbls. Well open _____ hrs. before test _____ RP. Well treatment details:	Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16 Cond.				
13-10"				
9 5/8				
8 5/8		277	277	100 sacks
7				
5 1/2				
4 1/2		2161	2161	150 sacks
3				
2				
Liners Used				

Attach copy of cementing record.

Perforated from 2027' to 2063' and from 2070' to 2075' with 40 shots  
(1 5/8" hole size). Frac'd with 405 bbl. and 15,000# of 10/20 sand,  
formation broke at 1400#, I.S.I. 1000#

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
 Fresh water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
 Producing Sand Big Injun Depth 2025' to 2063'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale and Sandstone			0	250		
Sandstone			250	294		
Shale and Siltstone			294	317		
Sandstone			317	329		
Shale			329	367		
Sandstone			367	374		
Shale and Siltstone			374	568		
Sandstone			568	664		
Shale			664	672		
Sandstone and Siltstone			672	784		
Shale and Siltstone			784	891		
Sandstone			891	953		
Shale and Siltstone			953	1134		
Sandstone			1134	1185		
Siltstone and Shale			1185	1237		
Sandstone and Shale			1237	1312		
Shale			1312	1332		
Sandstone			1332	1468		
Shale			1468	1500		
Sandstone			1500	1690		
Shale and Siltstone			1690	1736		
Sandstone			1736	1838		

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09/11/2015

\* Indicates Electric Log tops in the remarks section.

(over)

Kanawha 2818 <sup>5</sup> M

Formation	Color	Hard or Soft	Top Feet <i>14</i>	Bottom Feet	Oil, Gas or Water	Remarks
Limestone, Little Lime			1838	1870		
Shale, Pencil Cave			1870	1873		
Limestone, Big Lime			1873	2025		
Sandstone, Big Injun			2025	2064		
Shale			2064	2069		
Siltstone and Shale			2069	2110		
Shale			2110	2156		

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AUG 20 2015

Date August 11, 09/11/2015 19 78

APPROVED QUAKER STATE OIL REFG. CORP., Owner

By E. Charles Lowe,  
(Title)  
E. Charles Lowe, Jr.  
Geologist

39.02818P

WW-4A  
Revised 6-07

256082  
1000.00  
1000

1) Date: June 15, 2015  
2) Operator's Well Number  
SUTTON H 4  
3) API Well No.: 47 - 039 - 02818

**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>Elkview, LLC</u>	Name _____
Address <u>1537 Bleacheyville Rd</u> ✓	Address _____
<u>Wooster, OH 44691</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</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: Mike Scarbrough *Mike Scarbrough*  
 Surface Landman  
 Address PO Box 8  
Ravenswood, WV 26164  
 Telephone 304-273-5371

Received  
Office of Oil & Gas  
AUG 20 2015

Subscribed and sworn before me this 6th day of July  
Shelly Welling Notary Public  
My Commission Expires 11/19/18

**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).

09/11/2015

**SURFACE OWNER WAIVER**

Operator's Well  
Number

SUTTON H 4

**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 57<sup>th</sup> 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.

Received  
Office of Oil and Gas

**VOLUNTARY STATEMENT OF NO OBJECTION**

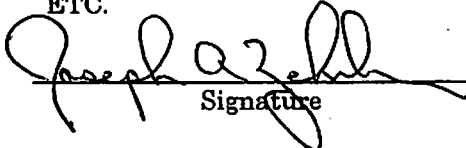
AUG 20 2015

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,

  
Signature

Date 8-7-15

Name Elkview LLC

By Joseph A Zehnder

Its CFO Date 8/2/15

  
Signature Date 09/11/2015

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) Willis Creek Quadrangle Clendenin

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 TUG-3015)

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.

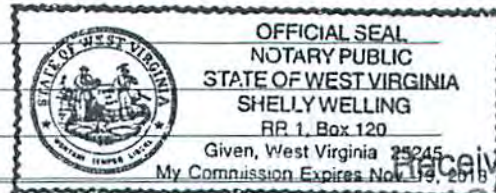
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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 6 day of July, 20 15

Shelly Welling Notary Public

My commission expires 11/19/18

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AUG 20 2015

09/11/2015



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: \_\_\_\_\_

Comments: \_\_\_\_\_

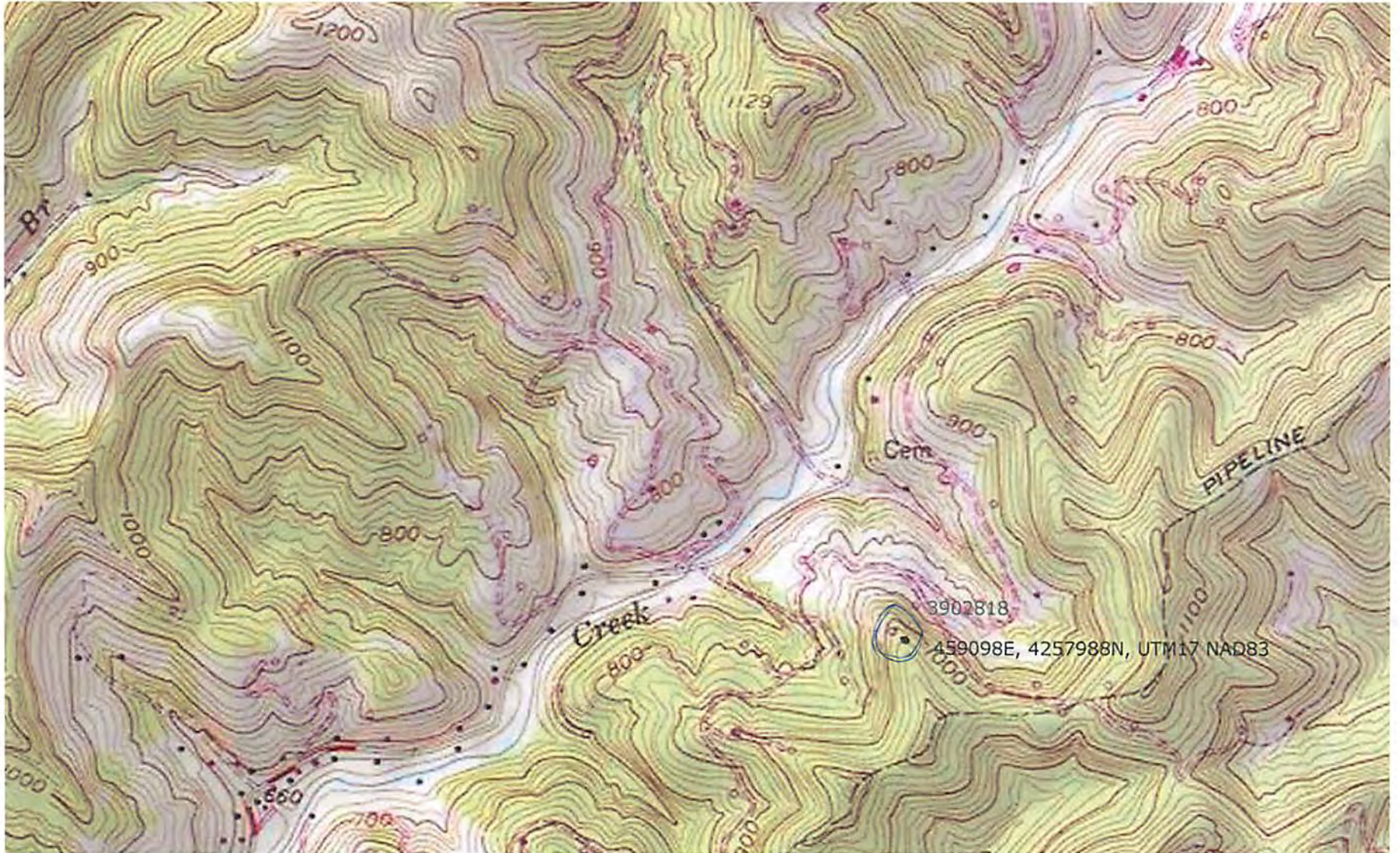
Title: Fidd Insp Dec

Date: 6-30-15

Field Reviewed?  Yes  No

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Office of Oil & Gas  
AUG 20 2015

2902818P



WW-7  
8-30-06



West Virginia Department of Environmental Protection  
Office of Oil and Gas

WELL LOCATION FORM: GPS

API: 47-039-02818 WELL NO.: SUTTON 4

FARM NAME: HARRY SUTTON

RESPONSIBLE PARTY NAME: EXCO RESOURCES (PA), LLC

COUNTY: KANAWHA DISTRICT: ELK

QUADRANGLE: CLENDENIN

SURFACE OWNER: ELKVIEW, LLC

ROYALTY OWNER: Lois W Walker et al

UTM GPS NORTHING: 4257988

UTM GPS EASTING: 459098 GPS ELEVATION: 1007'

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.

Mike Scarborough  
Signature

Surface Landman  
Title

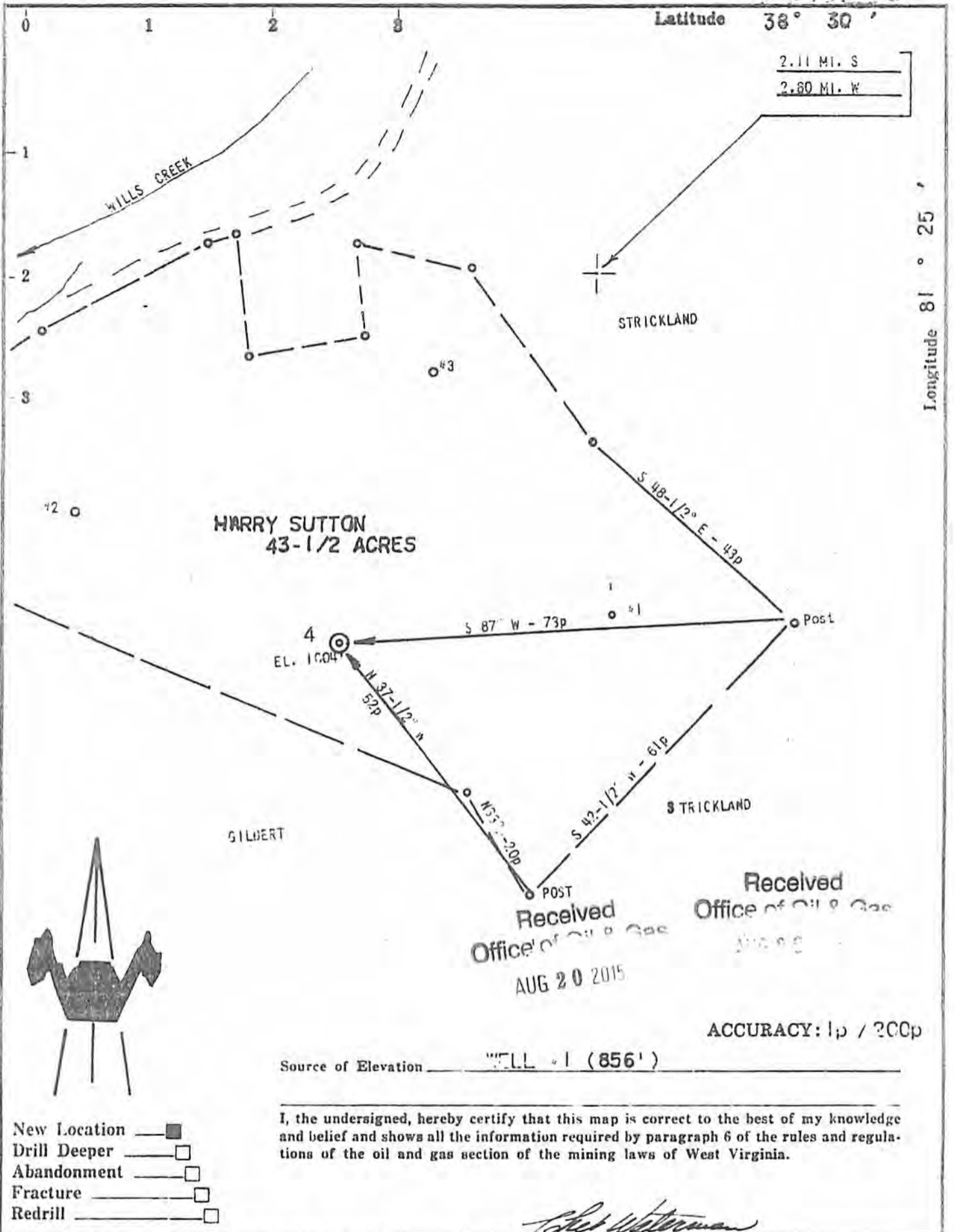
8/24/15  
Date

Received

AUG 24 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

3902818A



Company QUAKER STATE OIL REF. CORP.  
 Address PARKERSBURG, WV  
 Farm HARRY SUTTON  
 Tract \_\_\_\_\_ Acres 43-1/2 Lease No. \_\_\_\_\_  
 Well (Farm) No. 4 Serial No. W 1011  
 Elevation (Spirit Level) 1004'  
 Quadrangle CLENDENIM  
 County KANAWHA District ELK  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 74005-37 Drawing No. \_\_\_\_\_  
 Date 1/31/74 Scale 1" = 20p

H-27

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. KAN-2818 09/11/2015

--- 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.

47-039

Kanawha 2818

S m B