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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: 47-3902380, 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: SUTTON, HARRY  
**API Well Number: 47-3902380**  
**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.

### 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.

1) Date June 15, 2015  
2) Operator's  
Well No. SUTTON H 1  
3) API Well No. 47-039 - 02380

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 856' 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 1965', Gel hole
- Cement 1965'-1800' 15 sks, pull tubing
- Cut & pull 4 1/2 at approx 4-800 feet
- RIT Cement 850'-750' with 25 sks, pull tubing to 280'
- ★ Cement 280'-180' with 30 sks, pull tubing to ~~100'~~ 250ft
- Cement to surface with ~~30~~ 33 sks
- Set monument with proper API #, Reclaim.

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Office of Oil & Gas  
AUG 20 2015

★ CEMENT FROM 280' TO SURFACE.  
gmm

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



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Clendenin Cn 1-23  
Permit No. KAN-2380

WELL RECORD

Oil or Gas Well Oil  
(KIND)

Company Mareve Oil Corp.  
Address P.O. Box 1228, Parkersburg, W. Va.  
Farm Harry Sutton Acres 43 1/2  
Location (waters) Wills Creek  
Well No. 1 Elev. 856  
District Elk County Kanawha  
The surface of tract is owned in fee by Olive Cobb  
Address Elkview, W. Va.  
Mineral rights are owned by Harry Sutton et al  
Address Charleston, W. Va.  
Drilling commenced 4-22-69  
Drilling completed 4-26-69  
Date Shot From To  
With

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			Depth set
<del>8</del> 8-5/8"	241	241	
6 3/8"	Cement	Circ.	
5 3/16"			Perf. top
4 1/2"			Perf. bottom
3"			Perf. top
2"			Perf. bottom
Liners Used			

Open Flow /10ths Water in Inch  
/10ths Merc. in Inch  
Volume Cu. Ft.  
Rock Pressure lbs. hrs.  
Oil Show bbls., 1st 24 hrs.

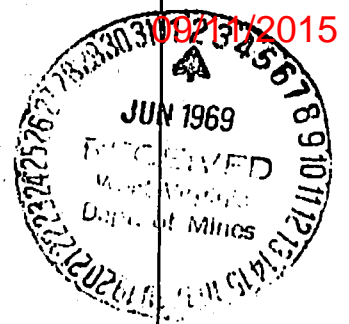
Attach copy of cementing record.  
CASING CEMENTED 4 1/2 SIZE 1963 No. Ft. 4-26-69 Date  
Amount of cement used (bags) 150  
Name of Service Co. Howco  
COAL WAS ENCOUNTERED AT FEET INCHES  
FEET INCHES FEET INCHES  
FEET INCHES FEET INCHES

WELL ACIDIZED (DETAILS)  
WELL FRACTURED (DETAILS) 41,500 #Sand & 41,500 gallons gelled fresh water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 32 BOPD  
ROCK PRESSURE AFTER TREATMENT HOURS  
Fresh Water Feet Salt Water Feet  
Producing Sand Big Injun Depth 1825-1862

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Red Bed & Rock			0	250			
Sand & Shale			250	1039			
Salt Sand			1039	1636			
Little Lime			1636	1679			
Pencil Cave			1679	1685			
Big Lime			1685	1825			
Big Injun			1825	1862			
Shale			1862	1965	(T.D.)		

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Office of Oil & Gas  
AUG 20 2015



256082  
4000.00  
\$100

3902380P

1) Date: June 15, 2015  
2) Operator's Well Number  
SUTTON H 1  
3) API Well No.: 47 - 039 - 02380

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

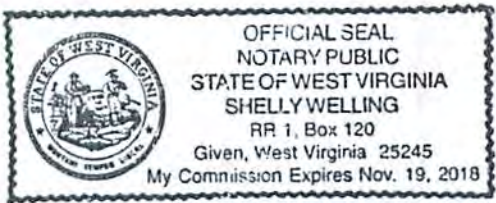
4) Surface Owner(s) to be served: (a) Name Jared A Steiner, Address 510 Mongo Mtn, Elkview, WV 25071  
5) (a) Coal Operator Name, Address  
(b) Coal Owner(s) with Declaration Name, Address  
(c) Coal Lessee with Declaration Name, Address  
6) Inspector Terry Urban, Address PO Box 1207, Clendenin, WV 25045, Telephone 304-549-5915

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 (Signature)  
Its: 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 6 day of July  
Shelly Welling (Signature)  
My Commission Expires 11/19/18  
Notary Public

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](mailto:depprivacyofficer@wv.gov).

09/11/2015

WW-9  
(2/15)

API Number 47 - 039 - 02380  
Operator's Well No. SUTTON H 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) 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 \_\_\_\_\_ )

*TU 6-30-15*

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? \_\_\_\_\_

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Office of Oil & Gas

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.

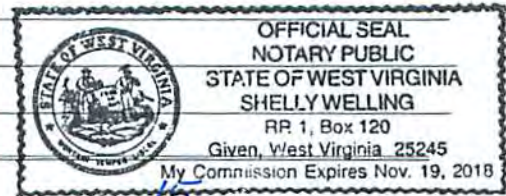
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations 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, 2015

*Shelly Welling* Notary Public

My commission expires 11/19/18

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: *Angela Blala*

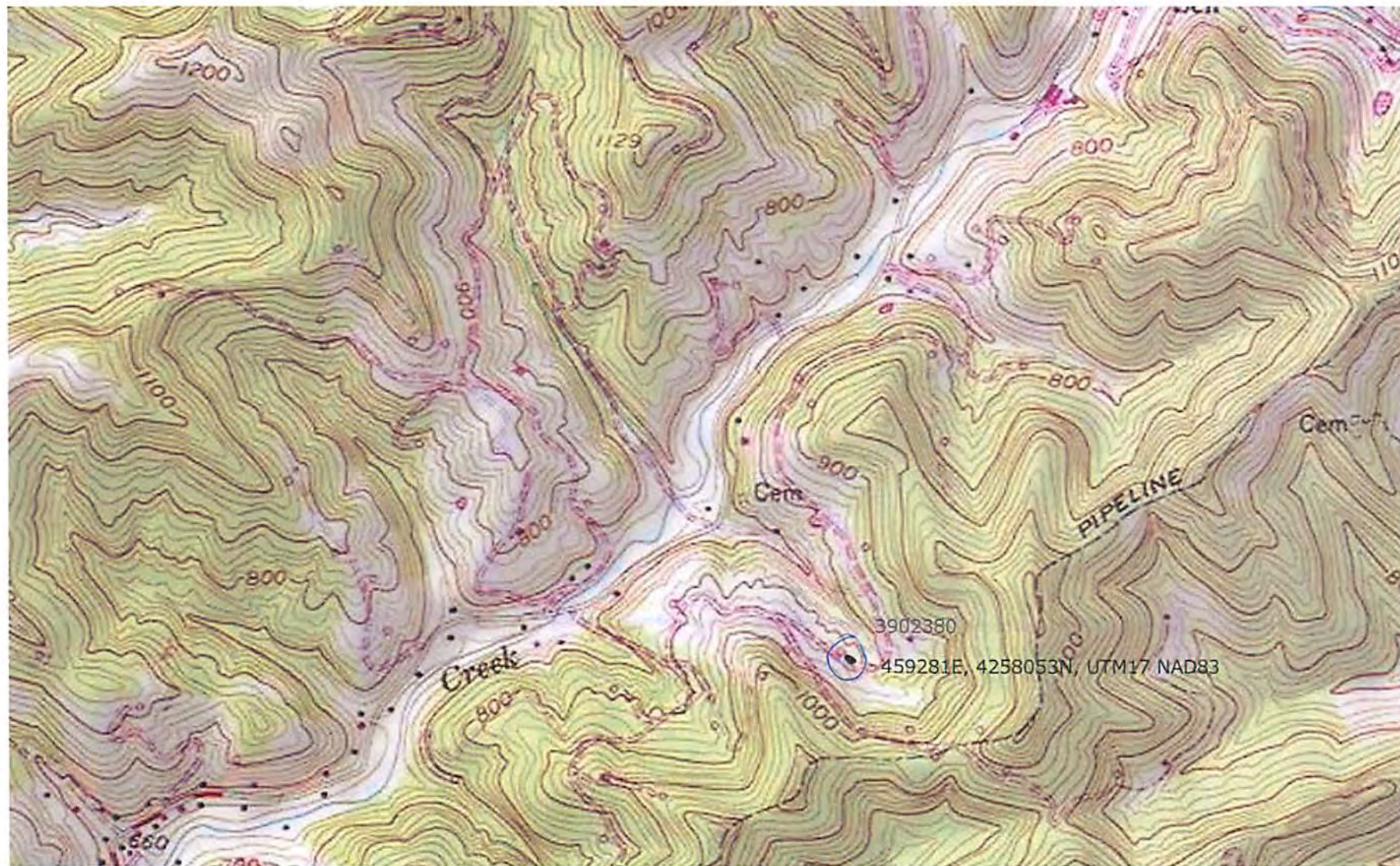
Comments: \_\_\_\_\_

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Office of Oil & Gas  
AUG 20 2015

Title: Field Insp O&G Date: 6-30-15

Field Reviewed?  Yes  No

3902380 P





WW-7  
8-30-06



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

API: 47-039-02380 WELL NO.: SUTTON 1  
FARM NAME: HARRY SUTTON  
RESPONSIBLE PARTY NAME: EXCO RESOURCES (PA), LLC  
COUNTY: KANAWHA DISTRICT: ELK  
QUADRANGLE: CLENDENIN  
SURFACE OWNER: JARED A STEINER  
ROYALTY OWNER: Lois W Walker et al  
UTM GPS NORTHING: 4258053  
UTM GPS EASTING: 459281 GPS ELEVATION: 825'

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

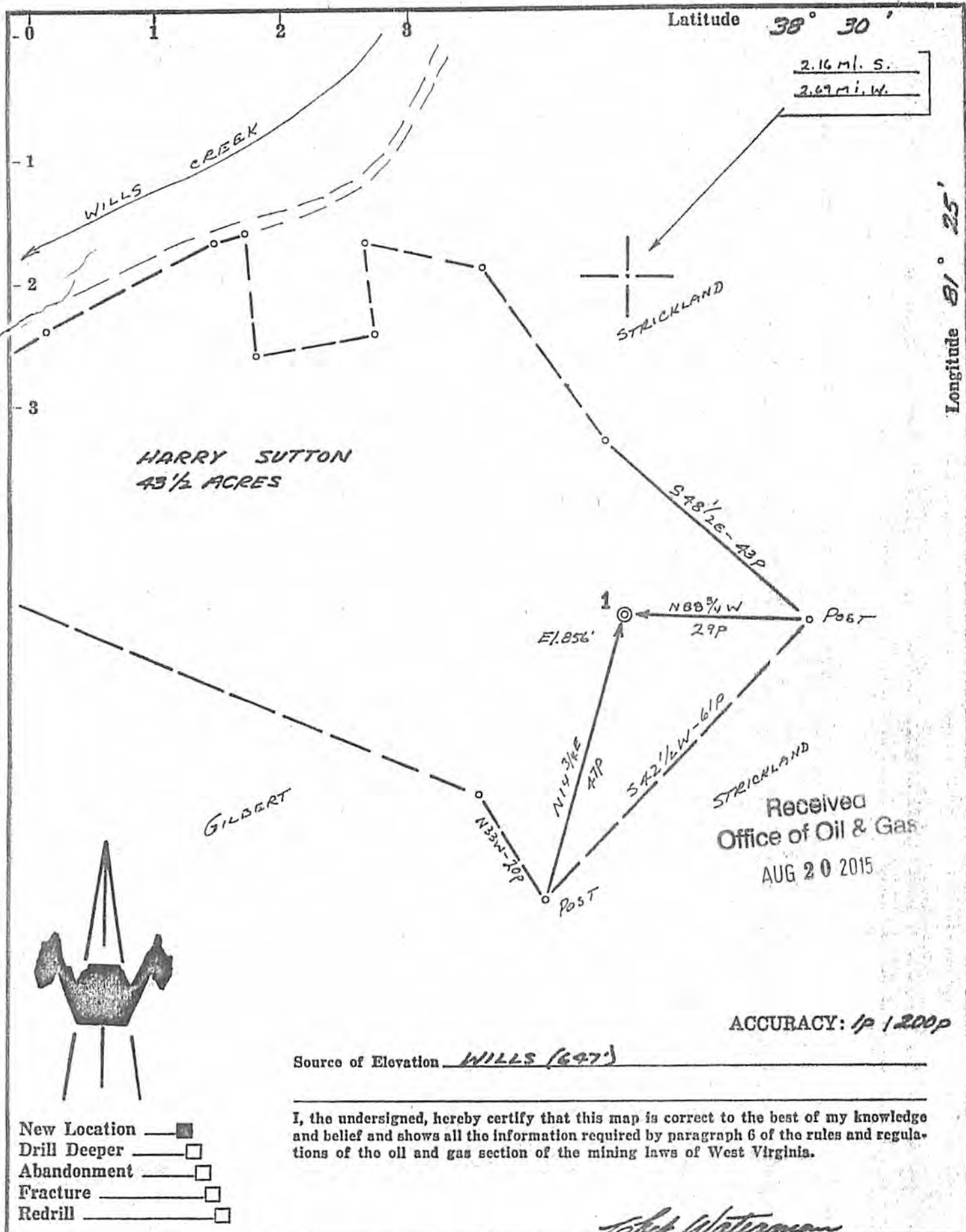
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AUG 24 2015

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 Seabrough Signature      Surface Landman Title      8/24/15 Date



Company MAREVE OIL CORP.  
 Address PARKERSBURG, W. VA.  
 Farm HARRY SUTTON  
 Tract Acres 43 1/2 Lease No. 217 K  
 Well (Farm) No. 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 856'  
 Quadrangle CLENDENIN  
 County KANAWHA District ELK  
 Engineer CHET WATERMAN  
 Engineer's Registration No. 3788  
 File No. 69023-78 Drawing No. \_\_\_\_\_  
 Date 3/27/69 Scale 1" = 200'

*Chet Waterman*

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

WELL LOCATION MAP  
FILE NO. KAN-2380

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.