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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

January 17, 2014

**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4700253, issued to EQT PRODUCTION COMPANY, 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: 130281 MOHAWK LAND CO. A#5  
Farm Name: ADDISON LAND & DEVELOPME

**API Well Number: 47-4700253**

**Permit Type: Plugging**

Date Issued: 01/17/2014

## 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

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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.

4700253P

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: Dec 16, 2013  
Operator's Well  
Well No. 130281 Mohawk Land Co. A#5  
API Well No.: 47 047 - 00253

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

cc 17237  
100<sup>cc</sup>

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) Elevation: 1267' Watershed: Fourpole Creek  
Location: Sandy River 06 County: McDowell 47 Quadrangle: Wharnccliffe 7.5' 672  
District: \_\_\_\_\_

6) Well Operator EQT Production Company  
120 Professional Place  
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place  
Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy  
Name: P.O. Box 268  
Address: Nimitz, WV 25978

9) Plugging Contractor:  
Name: HydroCarbon Well Service  
Address: PO BOX 995  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attachment for details and procedures.**

OFFICE USE ONLY

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

Work order approved by inspector GARY KENNEDY Date 12/27/13

**PLUGGING PROGNOSIS**

**Chhawk Land # - A-5 (130281)**

API # 47-047-00253  
McDowell Co., WV

Prepared by: **DOUG FRY**  
12/5/13

Current Status:

13 3/8" @ 24'  
10 3/4" @ 413' Set in red mud  
4.5" @ 3774' Set w/ 33 sks of cement  
2 3/8" UPSET @ 3741'  
TD - 3774'

FW @ 60' SW @ 1515' Coal @ 156', 1361' Salt Sand @ Not listed on record - Elevation 1266 on record  
Gas Shows @ 1142'-1338' Sand, 1905'-2035' Sand, 2592' - 3074' Big Lime Oil Shows @ None reported  
Completion: Frac; Perfed @ 3682'-3684' Berea perms

9402

- 1) Notify State Inspector Gary Kennedy @ 304 382 9700, 48 hrs prior to commencing operations.
- 2) TOOH w/ tubing and check condition and retally pipe on the way back in hole.
- 3) TIH w/ 2" tubing @ 3684'; set 200' C1A cement plug @ 3684' to 3484'. ( Berea Perfs)
- 4) TOOH w/ 2" tubing @ 3484'; Gel hole @ 3484' to 2805'.
- 5) TOOH w/ 2" tubing, Free Point 4.5" csg, cut 4.5" csg @ free point, TOOH w/ 4.5" csg.
- 6) Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas,Oil,Coal & FW shows below 4.5"  
do not omit any plugs shown.
- 7) TIH w/ 2" tubing @ 2805'; set 100' C1A cement plug @ 2805' to 2705'. ( gas show @ 2805')
- 8) TOOH w/ 2" tubing @ 2705'; Gel hole @ 2705' to 1990'.
- 9) TOOH w/ 2" tubing @ 1990'; set 100' C1A cement plug @ 1990' to 1890'. ( gas show @ 1990')
- 10) TOOH w/ 2" tubing @ 1890'; Gel hole @ 1890' to 1461'.
- 11) TOOH w/ 2" tubing @ 1461'; set 419' C1A cement plug @ 1461' to 1042'. ( Elevation Plug, Coal show @ 1361', C show @ 1142'-1348').
- 12) TOOH w/ 2" tubing @ 1042'; Gel hole @ 1042' to 475'.
- 13) TOOH w/ 2" tubing @ 475'; set 137' C1A cement plug @ 475' to 338'. ( 10 3/4" csg pt).
- 14) TOOH w/ 2" tubing @ 338'; Gel hole @ 338' to 210'.
- 15) TOOH w/ 2" tubing, Free Point 10 3/4" csg, cut 10 3/4" csg @ free point, TOOH w/ 10 3/4" csg.  
Set 100' C1A cement plug 50' IN/OUT of cut. Perf all 1<sup>st</sup> Salt Sand tops ,Gas, Oil, Coal & FW shows below 10 3/4 cut and do not omit any plugs shown.
- 16) TIH w/ 2" tubing @ 210'; set 210' C1A cement plug to surface.
- 17) Top off as needed.
- 18) Set Monument to WV - DEP Specifications
- 19) Reclaim Location & Roads to WV - DEP Specifications.

*DF*  
12/25/13



Mohawk Land A-5

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Gilbert 8 SW

Permit No. McD-253

WELL RECORD

Oil or Gas Well gas

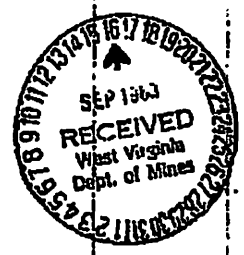
Company Cities Service Oil Company  
 Address Box 873, Charleston 23, W. Va.  
 Farm Mohawk Land Company Acres 2800  
 Location (waters) Fourpole Creek  
 Well No. 5 - GW-1408 Elev. 1266.72'  
 District Sandy River County McDowell  
 The surface of tract is owned in fee by Mohawk Land Co.  
P. O. Box 370 Address Bluefield, W. Va.  
 Mineral rights are owned by same  
 Address same  
 Drilling commenced 4-4-63  
 Drilling completed 8-1-63  
 Date shot not shot From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow 10ths Water in \_\_\_\_\_ Inch  
 \_\_\_\_\_/10ths Merc. in \_\_\_\_\_ Inch  
 Volume show Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. hrs.  
 Oil \_\_\_\_\_ bbls. 1st 24 hrs.  
 WELL ACIDIZED not acidized  
 WELL FRACTURED see reverse side

Casing and Tubing	Used in DrillHole	Left in Well	Packers
Size			
10 3/8" 48#	24'	24'	Kind of Packer
10 3/4" 32#	413'	413'	Anchor Packer
8 1/2" 23#	2755'	pulled	Size of 4-1/2"
4-1/2" 9.5#	3774'	3774'	Depth set 3675'
3/8" 4#	3741'	3741'	Perf. top
Liners Used <u>w/ cage</u>			Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
see reverse side  
 COAL WAS ENCOUNTERED AT 156 FEET 36 INCHES  
1361 FEET 48 INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT 25/10 M. 2" @ 778 MCF (Berea)  
 ROCK PRESSURE AFTER TREATMENT 72 hours 705#  
 Fresh Water 60' Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	12			
Sand			12	88	F. water	60'	2-13" blr/hr.
Slate			88	148			
Sand			148	156			
Coal			156	159			
Slate			159	166			
Sand			166	437			
Slate			437	448			
Sand			448	476			
Slate			476	526			
Sand			526	570			
Slate			570	593			
Sand			593	622			
Slate			622	669			
Sand			669	823			
Slate and Shells			823	868			
Sand			868	912			
Lime			912	935			
Sand			935	1109			
Slate			1109	1142			
Sand			1142	1348	Gas	1163'	show
Slate			1348	1361			
Coal			1361	1365			
Sand			1365	1377			
Slate			1377	1386			
Sand			1386	1453			
Gritty Lime			1453	1469			



*Handwritten initials*

(over)

Formation	Color	Hard or Soft	Top 6	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			1469	1571			
Lime			1571	1582			
Red Rock			1582	1605			
Lime			1605	1632			
Red Rock			1632	1646			
Slate			1646	1654			
Red Rock			1654	1670			
Gritty Lime			1670	1690			
Sand			1690	1718			
Slate			1718	1728			
Red Rock			1728	1760			
Lime			1760	1769			
Sand			1769	1781			
Slate and Shells			1781	1814			
Lime			1814	1856			
Sand			1856	1863			
Slate			1863	1905			
Sand			1905	2035	Gas	1990'	show
Lime			2035	2043			
Slate			2043	2057			
Lime Shells			2057	2070			
Red Rock			2070	2138			
Slate			2138	2160			
Gritty Lime			2160	2226			
Sand			2226	2345			
Slate and Shells			2345	2379			
Gritty Lime			2379	2425			
Red Rock			2425	2441			
Slate and Shells			2441	2592	2638'DLM=2644' Deptameter		
Big Lime			2592	3074			
Red Sand			3074	3172			
Slate and Shells			3172	3251			
Sand			3251	3305	Schlumberger Log showed:		
Slate and Shells			3305	3644	Gas	2805'	show
Brown Shale			3644	3673	(Big Lime)		
Berea Sand			3673	3703	Gas	3677'	show
Shale			3703	3750	(Berea)	3681'	show
						3685'	show
Total depth-----				3750'DLM=			
				3746' Schlumberger Maas.			
Plugged back depth-----				3736'			
Schlumberger showed:							
Big Lime				3085'			
Berea			3673	3702			
<b>CASING RECORD</b>							
4-22-63	Ran 10-3/4" casing at 410'DLM with shoe-set in 25' red mud.						
7-17-63	Ran 7" casing on shoe at 2700'DLM-set in 20' red mud.						
8-8-63	Ran 4-1/2" casing at Total depth with shoe on bottom, 3 centralizers, R/L nipple 623'5" off bottom. Float insert at 3,645'. Cemented with 33 sacks.						
See Perforating and fracturing record on attached sheet.							

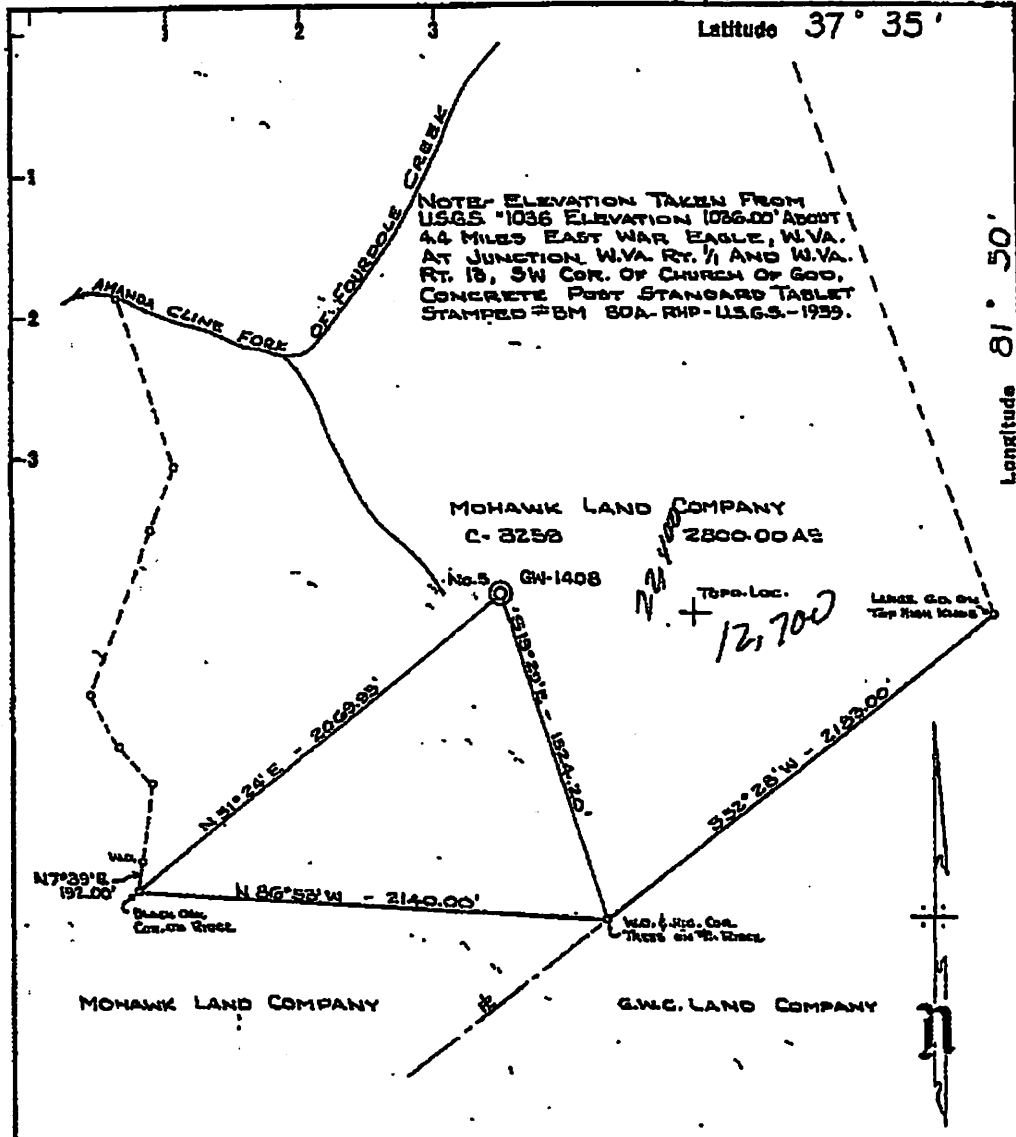
Date September 13 19 63

APPROVED Cities Service Oil Company, Owner

By W. S. Moore, Division Supt.  
(Title)

*Handwritten signature*

18-M-92



THE ACCURACY OF THIS SURVEY IS WITHIN THE LIMITS PRESCRIBED BY THE OIL AND GAS DIVISION OF THE DEPARTMENT OF MINES.

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 PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA.

New Location   
 Drill Deeper   
 Abandonment

Company CITING SERVICE OIL COMPANY  
 Address Box 870 CHARLESTON, W.VA.  
 Farm MOHAWK LAND COMPANY  
 Tract Acres 2800 Lease No. C-3258  
 Well (Farm) No. 5 Serial No. GW-1408  
 Elevation (Spirit Level) 1266.72'  
 Quadrangle GILBERT B S430 W243  
 County MC DOWELL District SANDY RIVER  
 Engineer J. J. ...  
 Engineer's Registration No. 2113  
 File No. ... Drawing No. VI-8-63  
 Date 27 FEB 63 Scale 1"=600'

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

WELL LOCATION MAP  
 FILE NO. M&D-253

+ Denotes location of well on United States Topographic Maps, scale 1 to 62500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

*Handwritten signature*

6A

MC 9-253

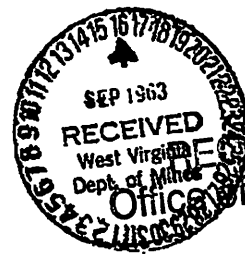
Perforating and Fracturing Record for GW-1408, Mohawk Land Company #5

Perforated Berea Sand:   3682' 2 shots  
                                   3683' 8 shots  
                                   3684-94' 2 shots/foot

Ran Logs: Induction, Gamma Gamma, Gamma Ray, Temperature, Caliper, CCL.

Fractured the Berea 8-19-63

Pumped in 500 gallons MCA, 1,000 gallons acid. Breakdown at 300#. Started sand 1/2#/gallon - went to 2-1/2#/gallon maximum. Pressure rose gradually from 400# to 1,000# during treatment. Final pressure 1,000#. Used 84,572# sand, 1,200 bbls. sand laden fluid, 1,256 bbls. fluid total. Injection rate 39 bbls/minute. Well on vacuum when quit. Show of gas before fracturing. Final open flow on 9-5-63 25/10 M. 2" = 778 MCF.



DEC 19 2013

WV Department of  
 Environmental Protection

01/17/2014





## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Mohawk Land Co. A #5 - WV 130281 - API No. 47-047-00253

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 130281.

RECEIVED  
Office of Oil & Gas

**BIRCH RIVER OFFICE**  
P.O. Box 438 • 237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
fax: 304-649-8608

**BRIDGEPORT OFFICE**  
172 Thompson Drive  
Bridgeport, WV 26330  
phone: 304-848-5035  
fax: 304-848-5037

**CALDWELL OFFICE**  
212 Cumberland Street  
Caldwell, OH 43724  
phone: 740-305-5007  
fax: 740-305-5126

**ALUM CREEK OFFICE**  
P.O. Box 108 • 4110 Childress Road  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

DEC 19 2013  
WV Department of  
Environmental Protection



Topo Quad: Wharncliffe 7.5'

Scale: 1" = 2000'

County: McDowell

Date: November 26, 2013

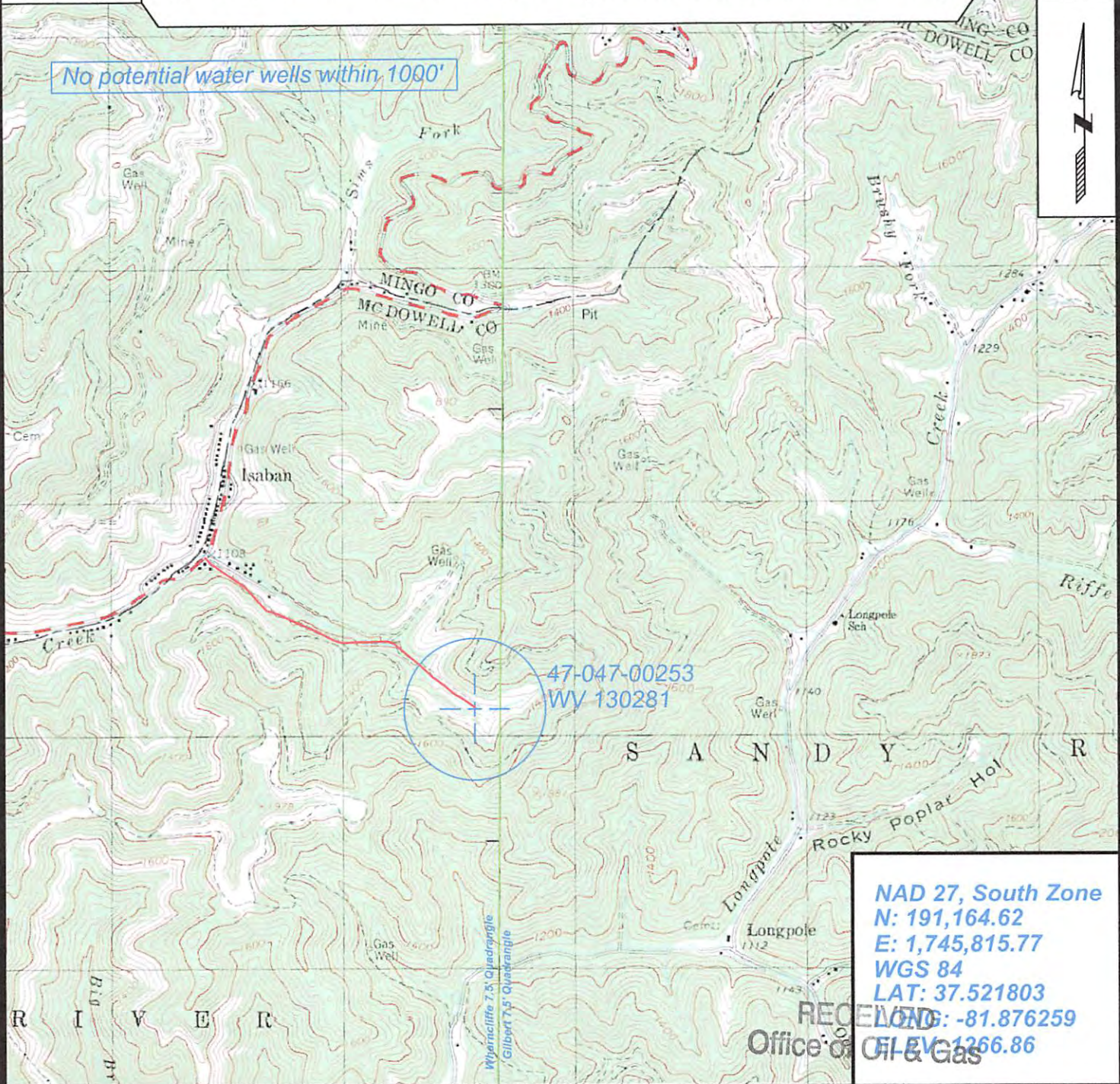
District: Sandy River

Project No: 20-37-00-08

Water

47-047-00253 WV 130281 (Mohawk Land Co. A #5)

No potential water wells within 1000'



NAD 27, South Zone  
 N: 191,164.62  
 E: 1,745,815.77  
 WGS 84  
 LAT: 37.521803  
 LONG: -81.876259  
 UTM: 1266.86

RECEIVED  
 Office of Oil & Gas



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR: DEC 19 2013  
**EQT Production Company**  
 WV Department of  
 Environment & Natural Resources  
 P.O. Box 280  
 Bridgeport, WV 26330

01/17/2014



1) Date: Dec 16, 2013  
2) Operator's Well Number  
130281 Mohawk Land Co. A#5  
3) API Well No.: 47 047 - 00253  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:  
(a) Name Addison Land & Development Company  
Address 505 9th Street N.W.  
Suite 1000  
Washington, DC 20004  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Gary Kennedy  
Address P.O. Box 268  
Nimitz, WV 25978  
Telephone 304-382-8402

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name The Leatherwood Company  
505 9th Street N.W.  
Address Suite 1000  
Washington, DC 20004  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
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 Division 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: \_\_\_\_\_  
By: \_\_\_\_\_  
Address: \_\_\_\_\_  
Liberty, WV 25124 Telephone: \_\_\_\_\_  
My Commission Expires July 27, 2018  
Subscribed and sworn before me this 16 day of December  
My Commission Expires: 6/27/2018

**EQT Production Company**  
Victoria J. Roark  
**Permitting Supervisor**  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

RECEIVED  
Office of Oil & Gas  
Notary Public  
DEC 19 2013

The Office of Oil & Gas processes your personal information, such as name, address and phone number, as 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).

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM**  
**GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_

Watershed: Fourpole Creek Quadrangle: Whamcliffe 7.5'  
Elevation: 1267' County: McDowell District: Sandy River

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes\_\_ No X

Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes:  
X Land Application  
\_\_\_\_ Underground Injection - UIC Permit Number  
\_\_\_\_ Reuse (at API Number)  
\_\_\_\_ Offsite Disposal Permit #.  
\_\_\_\_ Other: Explain \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc.  
If oil based, what type? Synthetic, petroleum, etc.

Additives to be used? \_\_\_\_\_

Will closed loop system be used? \_\_\_\_\_

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc.  
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust  
Landfill or offsite name/permit number? \_\_\_\_\_

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 Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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.

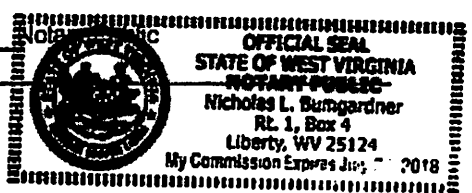
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

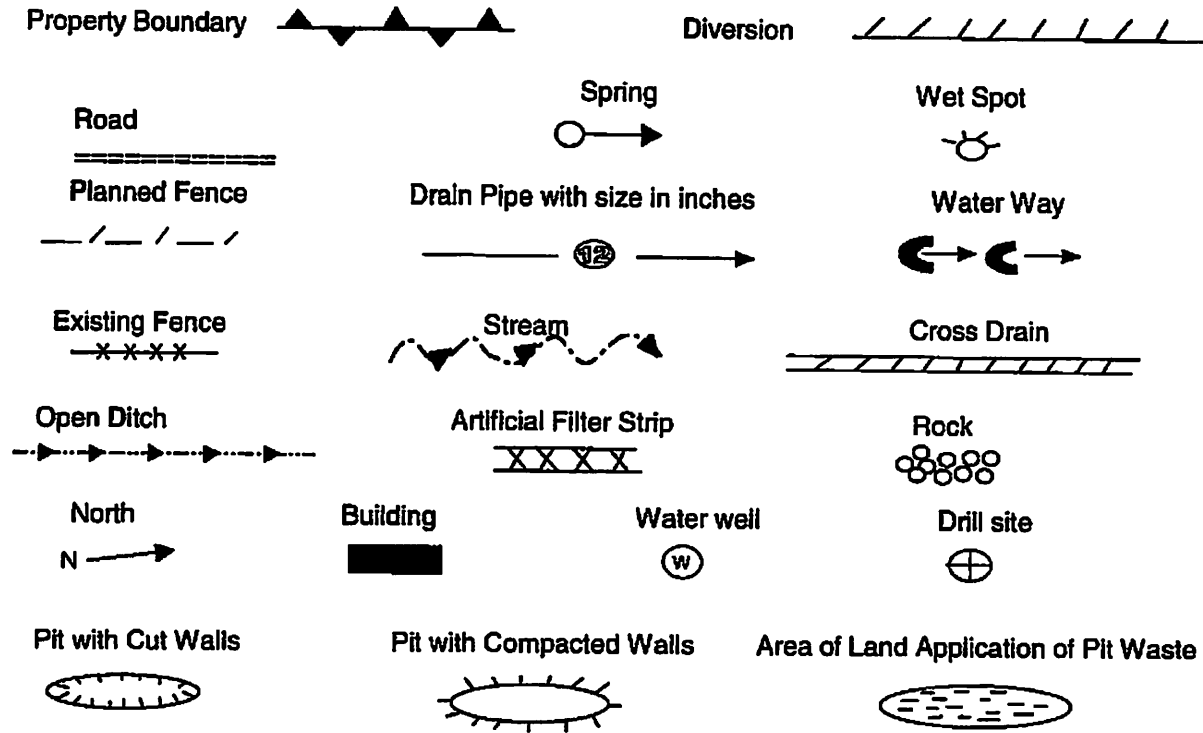
Subscribed and sworn before me this 16 day of DECEMBER, 2013

My Commission Expires 6/27/2018



**OPERATOR'S WELL NO.:**  
**130281 Mohawk Land Co. A#5**

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20) or equivalent 1/3 ton lbs/acre (500 lbs minimum)

Mulch 2 Tons/acre or hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
KY-31	40	Orchard Grass	15
Alsike Clover	5	Alsike Clover	5
Annual Rye	15		

**ATTACH:**

Drawing(s) of road, location, pit and proposed area for land application.  
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: Mary Kennedy

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

Title: Inspector Date: 12/27/13  
Field Reviewed? Yes No



Topo Quad: Wharncliffe 7.5'

Scale: 1" = 2000'

County: McDowell

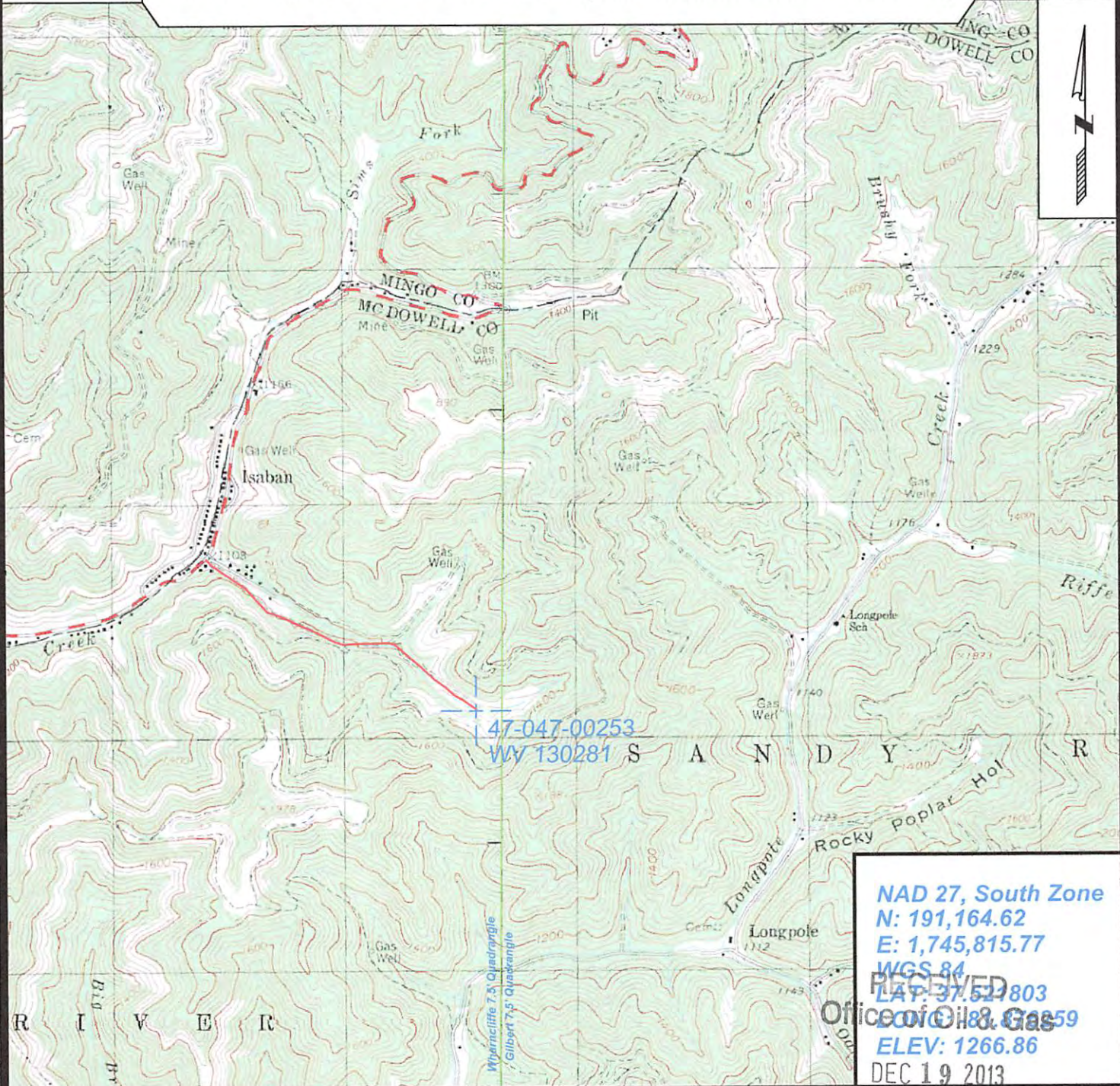
Date: November 26, 2013

District: Sandy River

Project No: 20-37-00-08

47-047-00253 WV 130281 (Mohawk Land Co. A #5)

Topo



NAD 27, South Zone  
 N: 191,164.62  
 E: 1,745,815.77  
 WGS 84  
 LAMP: 37.527803  
 Office of Oil & Gas  
 ELEV: 1266.86  
 DEC 19 2013



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 P.O. BOX 438  
 BIRCH RIVER, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR:  
**WV Department of Environmental Protection**  
**EQT Production Company**  
 P.O. Box 280  
 Bridgeport, WV 26330

01/17/2014



WW-7  
8-30-06



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

API: 47-047-00253 WELL NO.: WV 130281 (Mohawk Land Co. A #5)

FARM NAME: Mohawk Land Company

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: McDowell DISTRICT: Sandy River

QUADRANGLE: Wharncliffe 7.5'

SURFACE OWNER: Addison Land & Development

ROYALTY OWNER: The Leatherwood Company, et al.

UTM GPS NORTHING: 4153121

UTM GPS EASTING: 422569 GPS ELEVATION: 386 m (1267 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 X  
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.

Ray Obion  
Signature  
12/6/13  
Date

PS# 2180  
Title

RECEIVED  
Office of Oil & Gas

DEC 19 2013

WV Department of  
Environmental Protection

01/17/2014