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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

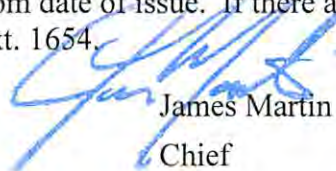
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4700252, 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: 130271 MOHAWK LAND CO. A#4  
Farm Name: ADDISON LAND & DEVELOPME  
**API Well Number: 47-4700252**  
**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.

Date: Dec 16, 2013  
Operator's Well  
Well No. 130271 Mohawk Land Co. A#4  
API Well No.: 47 047 - 00252

CK 17237  
100<sup>00</sup>

STATE OF WEST VIRGINIA  
DIVISION 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 \_\_\_\_\_ X Or Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X

5) Elevation: 1343' Watershed: Fourpole Creek  
Location: Sandy River 66 County: McDowell 47 Quadrangle: Whamcliffe 7.5 672  
District: \_\_\_\_\_

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
120 Professional Place Address: 120 Professional Place  
Address: Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy 9) Plugging Contractor:  
Name: P.O. Box 268 Name: HydroCarbon Well Service  
Address: Nimitz, WV 25978 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****( Hawk Land # - A-4 (130271)**

Ac1 # 47-047-00252

McDowell Co., WV

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

13 3/8" @ 35'

10 3/4" @ 504' Set in red mud

4.5" @ 3850' 4 1/2" Packer @ 3739' Set w/ 32 sks of cement

2 3/8" UPSET @ 3805' R-4 packer @ 646' to stop leak in 4.5"

TD - 3850'

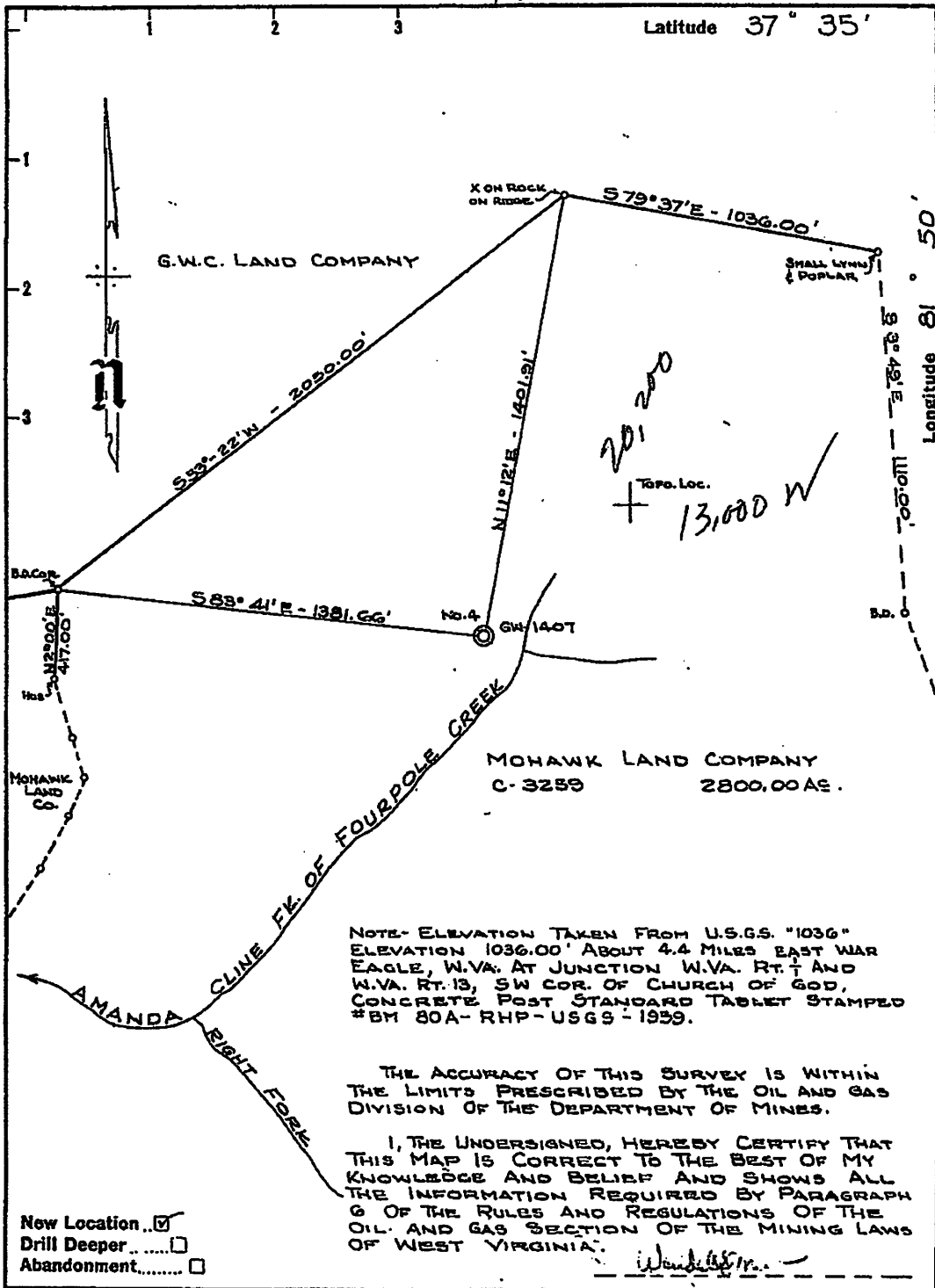
FW @ 50', 70', 80, Coal @ 40', 254' Salt Sand @ Not listed on record - Elevation 1342, on record  
 Gas Shows @ 2748'-3138' Big Lime, 1962'-2102' Ravenciff, 1570' - 1645' Sand Oil Shows @ None reported  
 Completion: Frac; Perfed @ 3741'-3759' Berea Gas show perfs

8462

- 1) Notify State Inspector Gary Kennedy @ 304 382 9700, 48 hrs prior to commencing operations.
- 2) TOO H w/ tubing and Packer @ 646, check condition and retally pipe on the way back in hole.
- 3) TIH w/ 2" tubing @ 3759'; set 200' C1A cement plug @ 3759' to 3559'. ( Berea Perfs)
- 4) TOO H w/ 2" tubing @ 3559'; Gel hole @ 3559' to 3006'.
- 5) TOO H w/ 2" tubing, Free Point 4.5" csg, cut 4.5" csg @ free point, TOO H 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 @ 3006'; set 100' C1A cement plug @ 3006' to 2906'. ( gas show @ 3006')
- 8) TOO H w/ 2" tubing @ 2906'; Gel hole @ 2906' to 2097'.
- 9) TOO H w/ 2" tubing @ 2097'; set 100' C1A cement plug @ 2097' to 1997'. ( gas show @ 2097')
- 10) TOO H w/ 2" tubing @ 1997'; Gel hole @ 1997' to 1612'.
- 11) TOO H w/ 2" tubing @ 1612'; set 370' C1A cement plug @ 1612' to 1242'. ( gas show @ 1612, Elevation plug')
- 12) TOO H w/ 2" tubing @ 1242'; Gel hole @ 1242' to 600'.
- 13) TOO H w/ 2" tubing @ 600'; set 204' C1A cement plug @ 600' to 440'. ( 10 3/4" csg pt).
- 14) TOO H w/ 2" tubing @ 338'; Gel hole @ 440' to 310'.
- 15) TOO H w/ 2" tubing, Free Point 10 3/4" csg, cut 10 3/4" csg @ free point, TOO H 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 @ 310'; set 310' C1A cement plug to surface. (3 FW shows, 2 Coal shows).
- 17) Top off as needed.
- 18) Set Monument to WV - DEP Specifications
- 19) Reclaim Location & Roads to WV - DEP Specifications.

*[Signature]*  
12/27/13

18-M-92



Company CITIES SERVICE OIL COMPANY  
 Address Box 873 CHARLESTON, W.VA.  
 Farm MOHAWK LAND COMPANY  
 Tract \_\_\_\_\_ Acres 2800 Lease No. C-3259  
 Well (Farm) No. 4 Serial No. GW-1407  
 Elevation (Spirit Level) 1342.72'  
 Quadrangle GILBERT 8 5387 W-250  
 County MCDOWELL District SANDY RIVER  
 Engineer J. A. Hill  
 Engineer's Registration No. 2113  
 File No. \_\_\_\_\_ Drawing No. W-7-68  
 Date 27 FEB 65 Scale 1" = 400'

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

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WELL LOCATION MAP  
 FILE NO. MCD-252

DEC 19 2013

WV Department of Environmental Protection

+ 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.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Quadrangle Gilbert 8 SW

Permit No. McD-252

WELL RECORD

Oil or Gas Well Gas  
(KIND)

Company <u>Citizen Service Oil Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>Box 873, Charleston 23, W. Va.</u>				
Farm <u>Mohawk Land Company</u> Acres <u>2, 800</u>	Size			Kind of Packer
Location (waters) <u>Amanda Cline Fork Fourpole Cr.</u>	16			
Well No. <u>4 - GW-1407</u> Elev. <u>1342.72'</u>	18 <u>3/8" 48'</u>	<u>35'</u>	<u>35'</u>	<u>Anchor Packer</u>
District <u>Sandy River</u> County <u>McDowell</u>	10 <u>3/4" 32'</u>	<u>504'</u>	<u>504'</u>	Size of <u>4-1/2"</u>
The surface of tract is owned in fee by <u>Mohawk Land Co.</u>	8 1/2			
P.O. <u>Box 370</u> Address <u>Bluefield, W. Va.</u>	<u>7 1/2" 23'</u>	<u>2801'</u>	<u>pulled</u>	Depth set <u>3, 739'</u>
Mineral rights are owned by <u>same</u>	<u>4-1 1/2" 2.5'</u>	<u>3850'</u>	<u>3850'</u>	
Address _____	3			Perf. top
Drilling commenced <u>3-27-63</u>	3 <u>3/8" 4'</u>	<u>3805'</u>	<u>3805'</u>	Perf. bottom
Drilling completed <u>8-30-63</u>	<u>4.6'</u>			Perf. top
Date Shot <u>not shot</u> From _____ To _____	Liners Used	<u>w/ 2" cage on</u>		Perf. top
With _____		<u>bottom</u>		Perf. bottom
Open Flow _____ /10ths Water in _____ Inch				
_____ /10ths Merc. in _____ Inch				
Volume <u>show</u> _____ Cu. Ft.	CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____			
Rock Pressure _____ lbs. _____ hrs.	<u>see reverse side</u>			
Oil _____ bbls., 1st 24 hrs.	COAL WAS ENCOUNTERED AT <u>40</u> FEET <u>36</u> INCHES			
WELL ACIDIZED <u>not acidized</u>	<u>254</u> FEET <u>24</u> INCHES FEET INCHES			
	FEET INCHES FEET INCHES			

WELL FRACTURED see fracturing record on reverse side

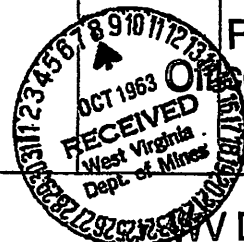
RESULT AFTER TREATMENT 30/10 M. 2" - 852 MCF (Beres)

ROCK PRESSURE AFTER TREATMENT 101 hours 710#

Fresh Water 50' 70' 80' Feet Salt Water \_\_\_\_\_ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface			0	10			
Blue Mud			10	25			
Slate			25	40			
Coal			40	43			
Slate			43	60	F. Water	50'	1/2-10"blr/hr.
Sand			60	83	F. Water	70'	2 blrs/hr.
Slate			83	117	F. Water	80'	hole full
Lime			117	139			
Sand			139	190			
Lime			190	218			
Slate			218	246			
Lime			246	254			
Coal			254	256			
Sand			256	481			
Lime			481	486			
Sand			486	537			
Slate			537	546			
Sand			546	572			
Lime			572	588			
Slate			588	629			
Sand			629	672			
Slate			672	678			
Lime			678	724			
Slate			724	752			
Lime			752	760			
Sand			760	920			
Slate			920	944			

(over)



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Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand			944	972			
Lime			972	1014			
Sand			1014	1125			
Gritty Lime			1125	1165			
Sand			1165	1175			
Black Shale			1175	1195			
Sand			1195	1437			
Slate			1437	1442			
Sand			1442	1453			
Lime			1453	1470			
Slate and Shells			1470	1500			
Sand			1500	1555			
Lime			1555	1570			
Sand			1570	1645	Gas	1612'	show
Red Rock			1645	1683			
Lime			1683	1730			
Red Rock			1730	1743			
Lime			1743	1805			
Red Rock			1805	1830			
Lime			1830	1841			
Slate and Shells			1841	1895			
Lime			1895	1915			
Slate			1915	1962			
Ravenscliff Sand			1962	2102			
Lime			2102	2112			
Red Rock			2112	2152			
Lime			2152	2265			
Mason Sand			2265	2406			
Lime			2406	2441			
Red Rock			2441	2458			
Lime			2458	2495			
Sand			2495	2522			
Lime			2522	2541			
Red Rock			2541	2571			
Lime			2571	2582			
Slate			2582	2596			
Lime			2596	2646			
Slate			2646	2675			
Big Lime			2675	2738			
Slate			2738	2748			
Big Lime			2748	3138			
Big Injun Sand			3138	3235			
Slate and Shells			3235	3711	Schlumberger showed:		
Brown Shale			3711	3735	Gas	2097'	show
Berea			3735	3765	Gas	3006'	show
Slate and Shells			3765	3817'DLM	Gas	3741-59'	show
				3825'Schl. Mens			
Total depth-----				3817'DLM-3825' Schl. Mens.			
Schlumberger showed:							
Berea			3736	3766			
Base Big Lime				3141			
Run Logs: Temperature, Gamma Ray, Gamma Gamma, Calliper, Induction, Density and CCL.							

See attached sheet for additional information

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Date October 8, 1963

APPROVED W. S. Moore Environmental Protection  
By W. S. Moore Environmental Protection  
(Title)

01/17/2014

4700252P

Ran Schlumberger Logs: Temperature, Gamma Ray, Caliper, Induction and Density.  
-- Showed Berea 3736-66' -- Gas 3741-59' show

9-11-63 Perforated Berea 3741-59' 2 shots/foot. Bailed dry- gas gauged 4/10 W. 1"  
= 21 MCF

FRACTURED THE BEREA 9-12-63

Before fracturing gas gauged 21 MCF. Ran 500 gallons MGA, 1,000 gallons regular acid. Displaced acid-no pressure. Broke down with 3 Allison's at 900#. Maximum sand concentration 2#/gallon. Maximum pressure 1700#. Average injection rate 48 bbls/min. Used 81,921# sand, 1331 barrels total fluid. At 913 barrels injected 10 perf balls - raised pressure 100#. At 1,050 barrels injected 10 perf balls-raised pressure 100#. Used 2 drums TMN. Well on vacuum at end.

Final open flow on 9-25-63 - 30/10 M. 2" = 852 MCF.

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Environmental Protection

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GW-1407, Mohawk Land Company #4

9-11-63 - Perforated Berea 3741-59' 2 shots/foot. Bailed dry- gas gauged  
4/10 W. 1" = 21 MCF

FRACTURED THE BEREA 9-12-63

Before fracing gas gauged 21 MCF. Ran 500 gallons MGA, 1,000 gallons regular acid. Displaced acid-no pressure. Broke down with 3 Allison's at 900# - maximum sand concentration 2#/gallon. Maximum pressure 1700#. Average injection rate 48 bbls/minute. Used 81,921# sand, 1,331 total barrels fluid. At 913 barrels injected 10 perf balls - raised pressure 100#. At 1,050 barrels injected 10 perf balls - raised pressure 100#. Used 2 drums TMN. Well on vacuum at end.

Final open flow 9-25-63 30/10 M. 2" = 852 MCF

CASING RECORD

4-22-63 - Ran 10-3/4" casing on shoe at 504' DLM. - Set in 30' red mud.

8-7-63 - Ran 7" with shoe at 2781' DLM - pulled

9-3-63 - Ran 4-1/2" casing at Total depth with shoe on bottom, Anchor Packer set 3739' - R/L Nipple 632' off bottom at 3,193'. Centralizers on 2nd, 5th and 9th joints off bottom. Cemented with 32 sacks. Pumped plug to 3,726'.

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4700252P

3805A-EXX  
**TUBING REPORT**  
 ASHLAND EXPLORATION, INC.

LEASE <i>Matthew</i>		WELL NO. <i>4</i>	DATE OF RUN <i>3-28-96</i>
CASING	SIZE <i>4 1/2"</i>	PACKERS:	
	WEIGHT <i>9.5#</i>	MAKE <i>Halliburton</i>	
	CASING POINT <i>3850'</i>	MODEL <i>R-4 tension 15,000# pull over string</i>	
	INSIDE CASING PBSD <i>3772'</i>	DEPTH <i>646' G.L.</i>	
FIRST STRING	ZONE <i>Berea</i>	PERFORATIONS <i>NA.</i>	DEPTH <i>18'</i>
	ZERO TO TOP OF TUBING		
	<i>Perf. it</i>		<i>30.53</i>
	<i>seating nipple 8rd w/2 xovers to 10rd.</i>		<i>2.02</i>
	<i>98 its 2 3/8 4.6# 10rd NUE tag</i>		<i>3033.07'</i>
	<i>1-R-4 pckr</i>		<i>4.55</i>
	<i>21 its 2 3/8 4.6# 10rd NUE tag</i>		<i>652.20</i>
	<i>set @ 3716' G.L. SN @ 3683' G.L.</i>		
	<i>R-4 pckr @ 646' G.L.</i>		
	<i>Remarks - Casing 4 1/2" hole (420-646) has between</i>		
TUBING, PUP JOINTS, ACCESSORY EQUIPMENT, ETC.		SLACK IN TUBING AS RESULT OF WT. ON PACKER <i>15,000# over string wt.</i>	TUBING POINT <i>3722' G.L.</i>
ZONE	PERFORATIONS	FEET	DEPTH
ZERO TO TOP OF TUBING			
SECOND STRING			
	TUBING, PUP JOINTS, ACCESSORY EQUIPMENT, ETC.		SLACK IN TUBING AS RESULT OF WT. ON PACKER

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NOTE: Show tubing and equipment, top to bottom.

47 00252P  
 99172

NUMBER)  
 (SERIAL NO. CITY)

Date 3-28-96

Used or  
 Transferred From \_\_\_\_\_

To Location McHawk #4

Description of Pipe 5-2 Top Size 2 3/8 Weight 4.6 Grade J-55 Thread 1000

Kind \_\_\_\_\_ Couplings NUE Class B

JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS
<u>part 1</u> <u>5-4</u> 1	<u>32.55</u>		26	<u>31.33</u>		51	<u>29.70</u>		76	<u>31.56</u>	
2	<u>30.54</u>		27	<u>30.67</u>		52	<u>31.12</u>		77	<u>31.60</u>	
3	<u>31.42</u>		28	<u>31.73</u>		53	<u>30.-</u>		78	<u>31.40</u>	
4	<u>31.-</u>		29	<u>30.25</u>		54	<u>31.31</u>		79	<u>30.58</u>	
5	<u>29.80</u>		30	<u>30.66</u>		55	<u>31.70</u>		80	<u>31.12</u>	
6	<u>30.79</u>		31	<u>31.15</u>		56	<u>31.40</u>		81	<u>31.52</u>	
7	<u>31.17</u>		32	<u>30.47</u>		57	<u>30.40</u>		82	<u>32.10</u>	
8	<u>30.63</u>		33	<u>30.31</u>		58	<u>30.30</u>		83	<u>31.10</u>	
9	<u>31.28</u>		34	<u>30.86</u>		59	<u>30.30</u>		84	<u>29.95</u>	
10	<u>31.02</u>		35	<u>31.30</u>		60	<u>30.09</u>		85	<u>31.62</u>	
11	<u>31.20</u>		36	<u>30.89</u>		61	<u>31.48</u>		86	<u>30.83</u>	
12	<u>31.15</u>		37	<u>31.10</u>		62	<u>30.38</u>		87	<u>31.20</u>	
13	<u>30.94</u>		38	<u>29.17</u>		63	<u>31.-</u>		88	<u>31.16</u>	
14	<u>31.18</u>		39	<u>31.57</u>		64	<u>31.02</u>		89	<u>30.54</u>	
15	<u>30.97</u>		40	<u>31.28</u>		65	<u>29.65</u>		90	<u>30.73</u>	
16	<u>31.18</u>		41	<u>30.42</u>		66	<u>31.-</u>		91	<u>30.72</u>	
17	<u>31.34</u>		42	<u>31.74</u>		67	<u>31.82</u>		92	<u>31.96</u>	
18	<u>38.40</u>		43	<u>30.78</u>		68	<u>30.77</u>		93	<u>29.80</u>	
19	<u>30.-</u>		44	<u>31.58</u>		69	<u>31.05</u>		94	<u>29.18</u>	
20	<u>31.-</u>		45	<u>31.07</u>		70	<u>31.70</u>		95	<u>31.80</u>	
21	<u>31.17</u>		46	<u>30.43</u>		71	<u>31.43</u>		96	<u>31.05</u>	
22	<u>31.18</u>		47	<u>31.87</u>		72	<u>30.90</u>		97	<u>31.16</u>	
23	<u>31.23</u>		48	<u>29.88</u>		73	<u>33.10</u>		98	<u>30.77</u>	
24	<u>31.72</u>		49	<u>31.31</u>		74	<u>31.25</u>		99	<u>31.30</u>	
25	<u>31.37</u>		50	<u>31.34</u>		75	<u>31.71</u>	<u>P-4</u>	00	<u>4.55</u>	
TOTALS	<u>774.13</u>			<u>773.16</u>			<u>773.58</u>	TOTAL		<u>749.30</u>	

REMARKS

TOTAL 3070.17

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Purchase Order or  
 Material Transfer \_\_\_\_\_

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TUBING, PUP JOINTS, ACCESSORY EQUIP-  
 MENT, ETC.

SLACK IN TUBING AS RESULT OF WT. TUBING JOINT  
 ON PACKER

NOTE: Show tubing and equipment

01/17/2014

used or  
transferred From

To Location Mo Hawk #4  
Description of Pipe B-2 Top Size 2 3/8 Weight 4.6 Grade J-55 Thread 1end  
Kind \_\_\_\_\_ Couplings NUE Class B

JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS	JOINT NO.	FT.	HNDRTHS
101	31	13	26			51			76		
102	30	44	27			52			77		
103	31	35	28			53			78		
104	31	05	29			54			79		
105	31	27	30			55			80		
106	31	-	31			56			81		
107	30	55	32			57			82		
108	30	95	33			58			83		
109	30	84	34			59			84		
110	31	78	35			60			85		
111	31	05	36			61			86		
112	30	95	37			62			87		
113	30	90	38			63			88		
114	31	63	39			64			89		
115	31	61	40			65			90		
116	30	96	41			66			91		
117	30	52	42			67			92		
118	30	97	43			68			93		
119	31	-	44			69			94		
120	31	30	45			70			95		
121	31	05	46			71			96		
22			47			72			97		
23			48			73			98		
24			49			74			99		
25			50			75			00		
TOTALS	652	20									

REMARKS ran 121 pps 2 3/8 3722' out @ 3714' G.L. seating nipple @ 3683' G.L. R-4 pkr set @ 3646' G.L. TOTAL 3722 37  
Purchase Order or Material Transfer 3 pps 6', 4', 4' Talled By Office of Oil & Gas

DEC 19 2013

TUBING, PUP JOINTS, ACCESSORY EQUIPMENT, ETC.

WV Department of Environmental Protection  
SLACK IN TUBING AS RESULT OF WEIGHT LEADING POINTS  
01/17/2014

NOTE: Show tubing and equipment, top to bottom.

## ASHLAND OPERATED WORKOVER

## MOHAWK A-4

McDowell Co., WV

AFE: Charge to Lease #311037

13 $\frac{3}{8}$ " 48# @ 35'10 $\frac{3}{4}$ " 32.75# @ 504'

7" 23# @ 2801'

4 $\frac{1}{2}$ " 9.5# @ 3850' w/32 sx2 $\frac{3}{8}$ " 4.6# @ 3716', SN @ 3683', R-4 Pkr @ 646'

Berea 3741-3759 Wtr Frac (852 Mcf/d)

PBTB @ 3807'

Objective: Correct tubing and/or casing leak

- 03-26-96 Day 1 — MIRU Carper Well Service. SITP 42#, SICP 53#, BWD. GT (tbg) = 0. GT (csg) 4/10 2" wtr = 84 Mcf/d (surging). BD wellhead. Work packer & TOH w/14 jts 2 $\frac{3}{8}$ " tbg & 5 pup jts. Rig broke down. Shut down for repairs. ECTD = \$1100
- 03-27-96 Day 2 — Rig down for repairs.
- 03-28-96 Day 3 — TOH w/109 jts 2 $\frac{3}{8}$ " tbg. Ck TD @ 3773'. RU tank & swab to 3770', recovered 5 $\frac{1}{2}$  bbls wtr. GT 50/10 1" wtr = 75 Mcf/d. TIH w/tbg & R-4 pkr. Set R-4 @ 469', casing still leaking. Set R-4 @ 962', casing leak stopped. TOH w/3 jts. Set R-4 @ 870', no leak. TOH w/3 jts. Set R-4 @ 777', no leak. TOH w/3 jts. Set R-4 @ 620', casing leaking. TIH w/1 jt. Set R-4 @ 652', no leak. TOH w/tbg & pkr. TIH w/perf jt, SN, 37 jts 2 $\frac{3}{8}$ " 4.6# J-55. SIW. ECTD = \$2,112
- 03-29-96 Day 4 — Finish running tbg. Total 120 jts 2 $\frac{3}{8}$ " 4.6# NUB J-55 tbg (3722') set @ 3716' GL, SN @ 3683' GL, R-4 @ 646' GL. Packer set w/10,000# over string wt. (Could not go deeper w/tbg, possible severe dogleg in casing). Swab tbg to 3683'. GT 4/10 1" wtr = 21 Mcf/d. Swab to 3683'. GT 6/10 2" wtr = 103 Mcf/d. SIW. ECTD = \$4,828
- 04-01-96 Day 5 — SITP 65#, SICP 0# w/packer set. No fluid w/BD. Swab tubing @ 3683' (5 gal wtr). GT 48/10 1" wtr = 73 Mcf/d. Swab tubing @ 3683' (1 gal wtr). Hook up well, drop soap stick, shut in well. RD CU & move out. ECTD = \$5,452 FINAL REPORT

R-4  
962'RECEIVED  
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01/17/2014

47 00252P

WW-4-A  
Revised 6/07

1) Date: Dec 16, 2013  
2) Operator's Well Number  
130271 Mohawk Land Co. A#4  
3) API Well No.: 47 047 - 00252  
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**

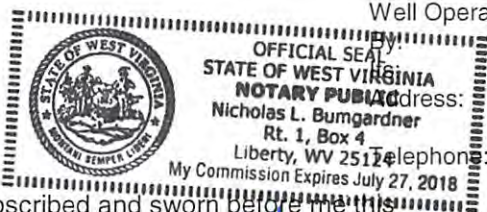
4) Surface Owner(s) to be served:  
(a) Name Addison Land & Development Company ✓  
Address 505 9th Street N.W.  
Suite 1000  
Washington, DC 20004  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Gary Kennedy ✓  
Address P.O. Box 268  
Nimitz, WV 25978  
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:  
  
Subscribed and sworn before me this 16 day of DECEMBER, 2013  
My Commission Expires: 6/27/2018

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

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Office of Oil & Gas

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 [depprivacyoffice@wv.gov](mailto:depprivacyoffice@wv.gov).

DEC 19 2013  
West Virginia Department of Environmental Protection

01/17/2014

4700252A

12/16/2013  
US POSTAGE  
\$07.77  
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041110226992

7013 2630 0002 2366 3350  
7013 2630 0002 2366 3350

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Postage	\$	Postmark Here
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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

To: **Addison Land & Development Company**  
 505 9<sup>th</sup> Street N.W.  
 Suite 1000  
 Washington, DC 20004  
 130271, 130281

Sent   
 Signature or PC   
 City

PS Form 3800, August 2006 See Reverse for Instructions

Addison Land & Development Company  
505 9<sup>th</sup> Street N.W.  
Suite 1000  
Washington, DC 20004  
130271, 130281

C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 Addison Land & Development Company  
 505 9<sup>th</sup> Street N.W.  
 Suite 1000  
 Washington, DC 20004  
 130271, 130281

2. Article Number  
 7013 2630 0002 2366 3350  
 (Transfer from service label)  
 PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

3. Service Type  
 Certified Mail  
 Express Mail  
 Registered  
 Insured Mail  
 C.O.D.  
 Return Receipt for Merchandise

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 B. Received by (Printed Name) \_\_\_\_\_  
 C. Date of Delivery \_\_\_\_\_  
 D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

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Environmental Protection  
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47 00252P

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Gary Kennedy  
P.O. Box 268  
Nimitz, WV 25978  
130274, 130281, 793799, 793806, 508888, 506499

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01/17/2014



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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
<b>Total</b>		

**Sent To**  
**The Leatherwood Company**  
**505 9<sup>th</sup> Street N.W.**  
**Suite 1000**  
**Washington, DC 20004**  
**130271, 130281**

PS Form 3800, August 2006 See Reverse for Instructions

The Leatherwood Company  
 505 9<sup>th</sup> Street N.W.  
 Suite 1000  
 Washington, DC 20004  
 130271, 130281

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 The Leatherwood Company  
 505 9<sup>th</sup> Street N.W.  
 Suite 1000  
 Washington, DC 20004  
 130271, 130281

2. Article Number (Transfer from service label)  
 7013 2630 0002 2366 3343

3. Service Type  
 Certified Mail  
 Express Mail  
 Registered  
 Return Receipt for Merchandise  
 Insured Mail  
 C.O.D.

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

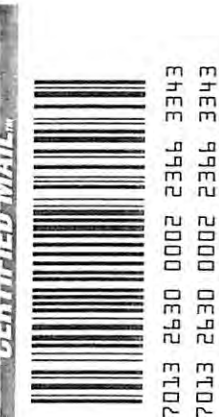
D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) \_\_\_\_\_  
 C. Date of Delivery \_\_\_\_\_

**COMPLETE THIS SECTION ON DELIVERY**

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540



**EQT**  
 C/O Vicki Roark  
 P.O. Box 280  
 Bridgeport, WV 26330

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 Environmental Protection  
 01/17/2014

**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: Wharnccliffe 7.5'  
Elevation: 1343' 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:  
 Land Application *HR*  
 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.

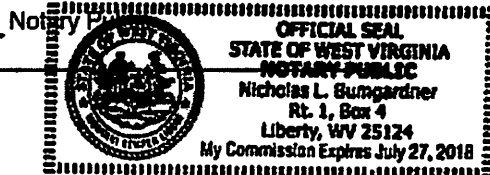
Company Official Signature *Victoria Roark*

Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

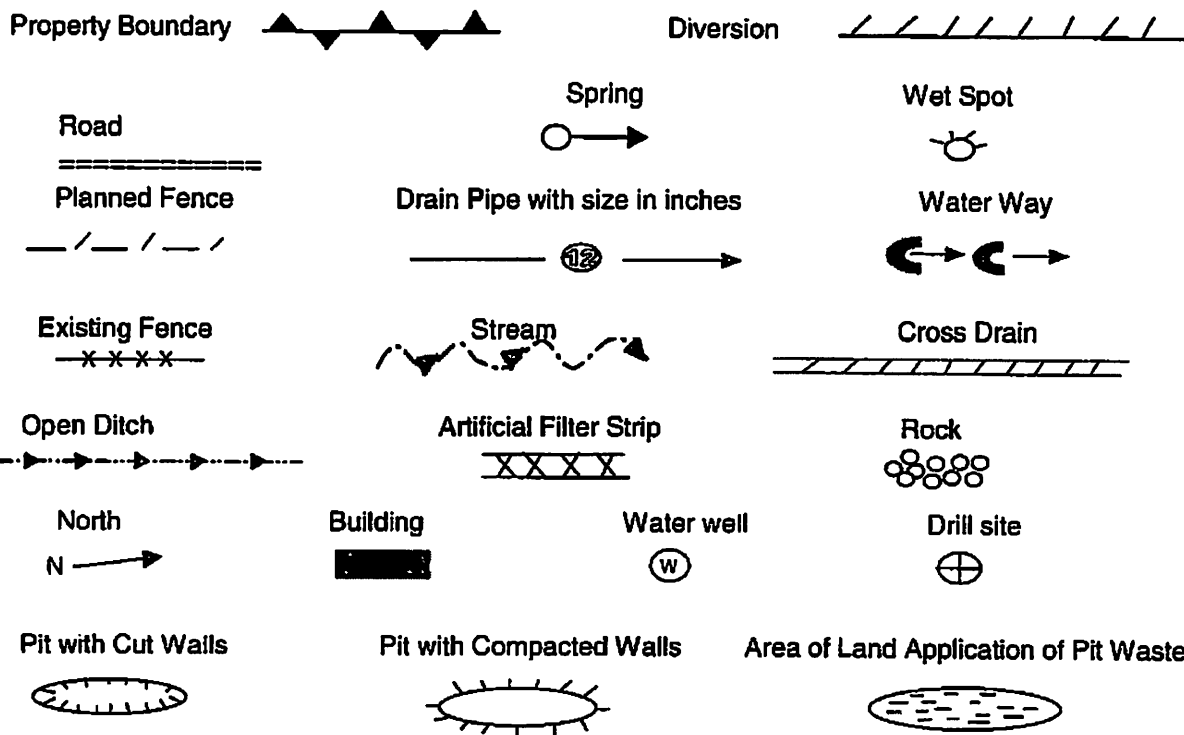
Subscribed and sworn before me this 16 day of DECEMBER, 2013

My Commission Expires 6/27/2018



**OPERATOR'S WELL NO.:**  
**130271 Mohawk Land Co. A#4**

**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: *Henry Kennedy*

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

Title: Inspector Date: 12/27/13

Field Reviewed? Yes No

47 00252 P

Topo Quad: Wharncliffe 7.5'

Scale: 1" = 2000'

County: McDowell

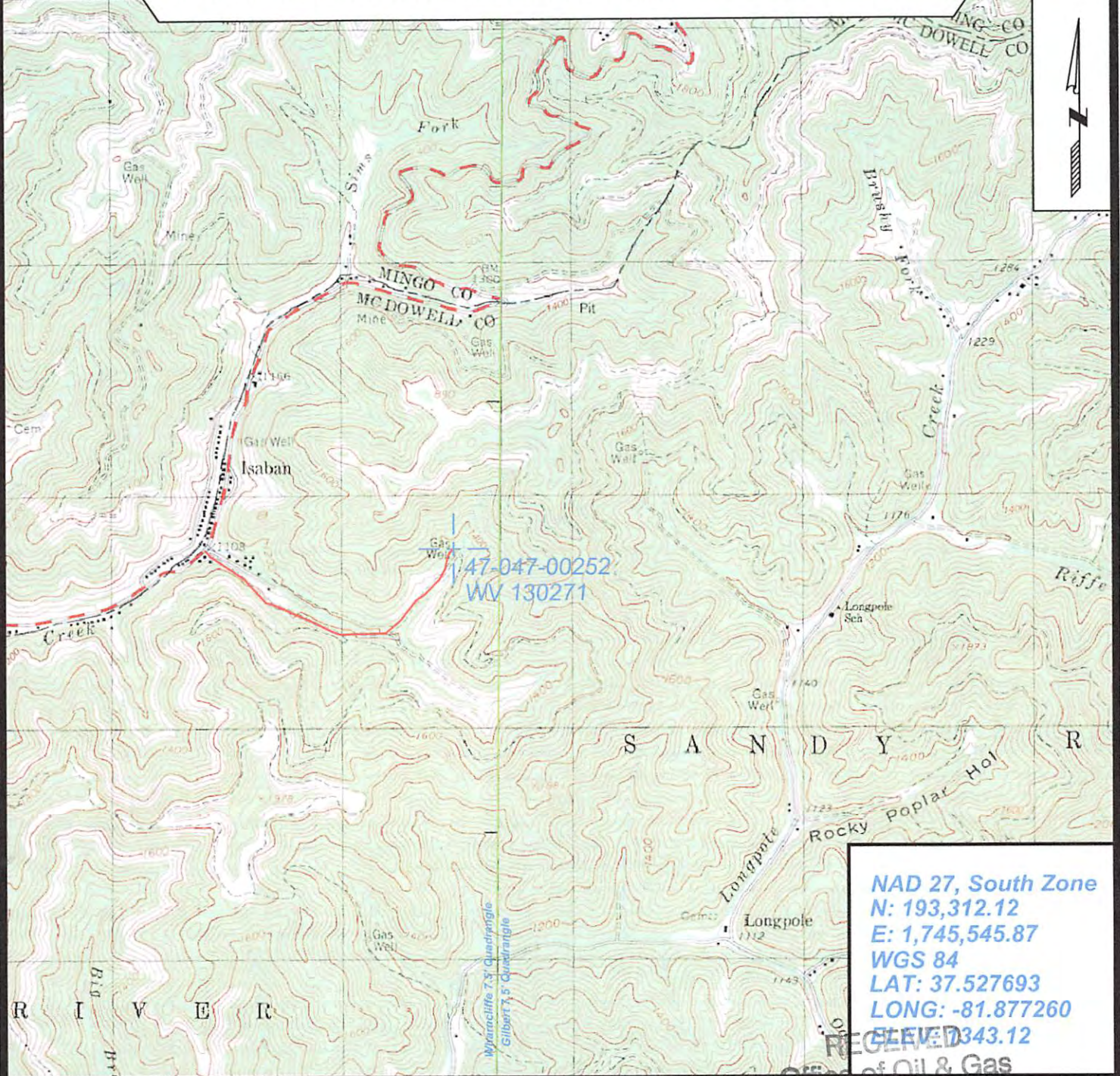
Date: November 26, 2013

District: Sandy River

Project No: 20-37-00-08

47-047-00252 WV 130271 (Mohawk Land Co. A #4)

Topo



NAD 27, South Zone  
 N: 193,312.12  
 E: 1,745,545.87  
 WGS 84  
 LAT: 37.527693  
 LONG: -81.877260  
 ELEV: 1343.12

Office of Oil & Gas

PREPARED FOR:

**EQT Production Company**

P.O. Box 280  
 Bridgeport, WV 26330

WV Department of  
 Environmental Protection

01/17/2014

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



WW-7  
8-30-06



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

API: 47-047-00252 WELL NO.: WV 130271 (Mohawk Land Co. A #4).

FARM NAME: Mohawk Land.

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: 4153775.

UTM GPS EASTING: 422487, GPS ELEVATION: 409 m (1343 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  : 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.

Signature

*Stacy O'Neil*  
12/5/13

Date

Title

PS # 2180

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## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY

LEASE NAME AND WELL No. Mohawk Land Co. A #4 - WV 130271 - API No. 47-047-00252

### POTENTIAL SAMPLE LOCATIONS

There appears to be no known water samples within the required 1000' of the existing well WV 130271.

**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

**RECEIVED**  
**ALUM CREEK OFFICE**  
**Office of Oil & Gas**  
P.O. Box 438 • 237 Birch River Road  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948  
DEC 19 2013

4700252P

Topo Quad: Wharncliffe 7.5'

Scale: 1" = 2000'

County: McDowell

Date: November 26, 2013

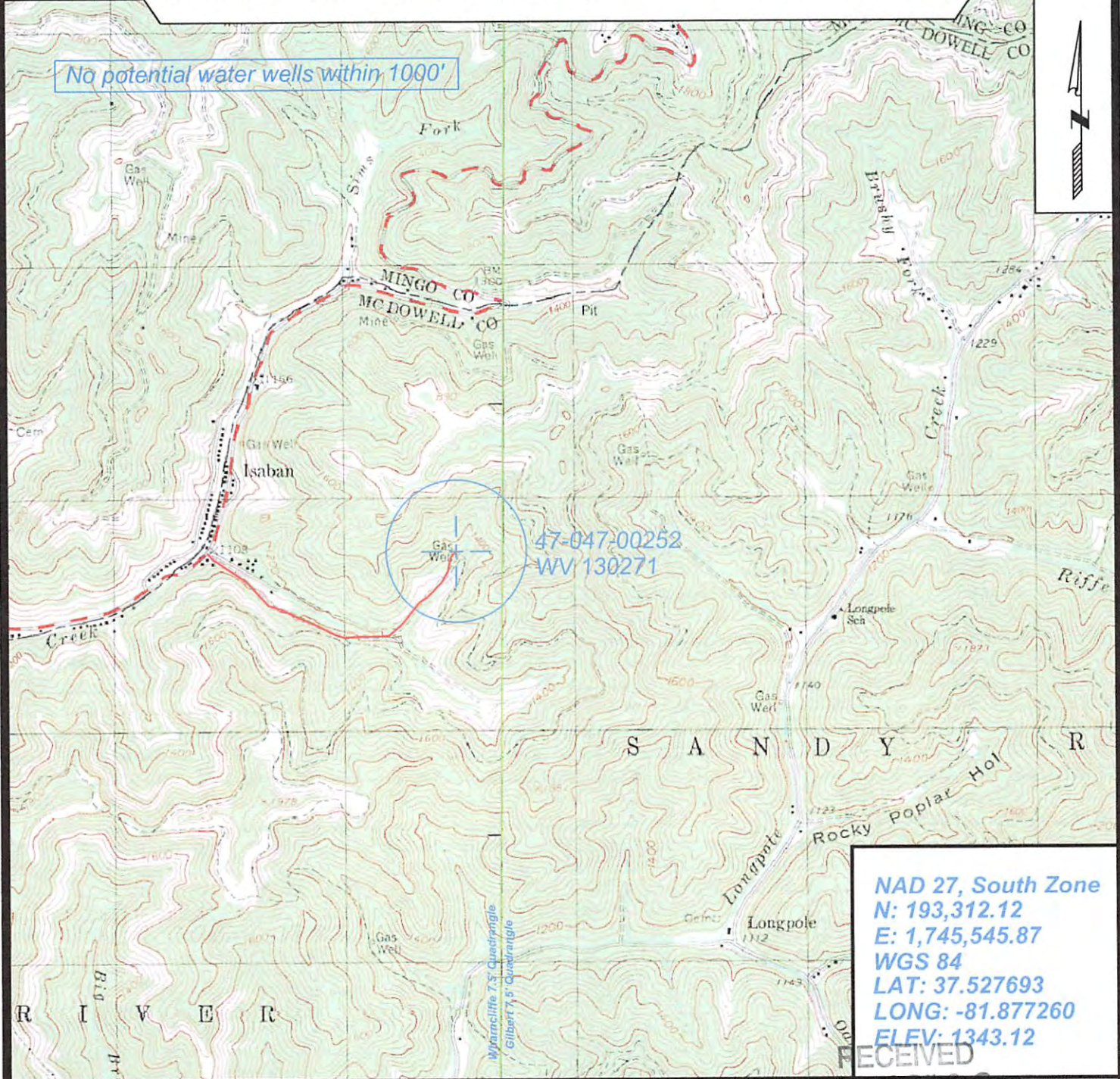
District: Sandy River

Project No: 20-37-00-08

Water

### 47-047-00252 WV 130271 (Mohawk Land Co. A #4)

No potential water wells within 1000'



NAD 27, South Zone  
 N: 193,312.12  
 E: 1,745,545.87  
 WGS 84  
 LAT: 37.527693  
 LONG: -81.877260  
 ELEV: 1343.12

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 PH: (304) 649-8606  
 FAX: (304) 649-8608

PREPARED FOR: Office of Oil & Gas

**EQT Production Company**

DEC 19 2013  
 P.O. Box 280  
 Bridgeport, WV 26330

WV Department of  
 Environmental Protection

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