

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47 - 170 - 5951 County Doddridge District 8  
Quad Oxford Pad Name OXF149 Field/Pool Name \_\_\_\_\_  
Farm name Harper, Lucy E. Well Number 513136  
Operator (as registered with the OOG) EQT Production Company  
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,341,363 Easting 517,206  
Landing Point of Curve Northing 4,341,271 Easting 517,575  
Bottom Hole Northing 4,340,510 Easting 517,946

Elevation (ft) 1240 GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine

Mud Type(s) and Additive(s)

Water base Mud 11.5 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose.

Date permit issued 01/21/2014 Date drilling commenced 7/10/2014 Date drilling ceased 11/27/2014  
Date completion activities began 5/4/2015 Date completion activities ceased 5/8/2015  
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 287', 326', 393', 438' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft NA Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 642 Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

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API 47-170 - 5951 Farm name Harper, Lucy E. Well number 513136

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	24	20	40	New	MC-50, 81 #/ft	N/A	Yes
Surface	17-1/2	13-3/8	943	New	J-55, 54.5 #/ft	416	Yes
Coal							
Intermediate 1	12-3/8	9-5/8	3116	New	A-500, 40 #/ft	1,381	Yes
Intermediate 2							
Intermediate 3							
Production	8-1/2	5-1/2	10416	New	P-110, 20#/ft	N/A	No
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	A	38	15.6	1.18	18.4	Surface	8
Surface	A	752	15.6	1.20	902	Surface	8
Coal							
Intermediate 1	A / A	895 / 228 / 1123	15.6 / 15.6	1.18 / 1.18	1056/269/1257	Surface	8
Intermediate 2							
Intermediate 3							
Production	A / H	570 / 430 / 1000	14.2 / 15.2	1.97 / 1.26	1122 / 542 / 1664	3,902'	72
Tubing							

Drillers TD (ft) 10,425' Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5,260'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  sonic

Well cored  Yes  No  Conventional  Sidewall Were cuttings collected  Yes  No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

20" Conductor - N/A  
 13-3/8" Surface - Bowspring Centralizers - 153', 567', 941'  
 9-5/8" Intermediate - Bowspring Centralizers - 241', 705', 1,169', 1,634', 2,099', 2,521', 3,028', 3,071'  
 5-1/2" Production - Composite Body Centralizers - Every Joint from the shoe to 500' above KOP.

WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_

API 47- 170 - 5951 Farm name Harper, Lucy E. Well number 513136

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					Please See Attached

Please insert additional pages as applicable.

**STIMULATION INFORMATION PER STAGE**

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
						Please	See	Attached

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Please insert additional pages as applicable.

API 47- 170 - 5951

Farm name Harper, Lucy E.

Well number \_\_\_\_\_

PRODUCING FORMATION(S)

DEPTHS

Marcellus 6,643' TVD 7,205' MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 927 psi Bottom Hole N/A psi DURATION OF TEST 57.0 hrs

OPEN FLOW Gas 10,379 mcfpd Oil N/a bpd NGL 8.7 bpd Water 713.1 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		

Please insert additional pages as applicable.

Drilling Contractor Alpha Hunter  
Address P.O Box 430 City Reno State OH Zip 45773

Logging Company Gyrodata Inc.  
Address 601 Mayer St. City Bridgeville State PA Zip 15017

Cementing Company Allied Services  
Address 333 Technology Drive, Suite 290 City Canonsburg State PA Zip 15317

Stimulating Company FTSI  
Address 301 E 18th Street City Cisco State TX Zip 76437

Please insert additional pages as applicable.

Completed by Jim Helmick Telephone 412-395-5518  
Signature  Title VP Completions Date 7/28/2015

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Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

17.05951

Drilling Contractor: Patterson UTI

Address: 207 Carlton Drive

City: Eighty Four State: PA

Zip: 15330

Cementing Company Nabors Well Services

Address 2504 Smith Creek Road

City Waynesburg

State PA

Zip 15370

Logging Company \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_

Zip \_\_\_\_\_

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Formation Name	Final Top TVD (ft)	Final Btm TVD (ft)
FRESH WATER ZONE	1	438
SANDSTONE/SHALE	1	642
COAL	642	645
SANDSTONE/SHALE	645	1,518.00
MAXTON	1,518.00	1,863.00
BIG LIME	1,863.00	1,923.00
KEENER	1,923.00	2,153.00
WEIR	2,153.00	2,353.00
BEREA	2,353.00	2,365.00
GANTZ	2,365.00	2,447.90
50F	2,447.90	2,556.90
30F	2,556.90	2,595.90
GORDON	2,595.90	2,701.90
4TH	2,701.90	2,838.90
5TH	2,838.90	2,877.90
BAYARD	2,877.90	3,212.90
WARREN	3,212.90	3,282.90
SPEECHLEY	3,282.90	3,809.90
BALLTOWN A	3,809.90	3,964.90
BALLTOWN B	3,964.90	4,159.90
BRADFORD	4,159.90	4,404.80
RILEY	4,404.80	4,836.70
BENSON	4,836.70	5,098.60
ALEXANDER	5,098.60	5,738.20
RHINESTREET	5,738.20	5,938.10
RHINESTREET UPPER	5,938.10	6,241.00
SONYEA	6,241.00	6,458.70
MIDDLESEX	6,458.70	6,499.90
GENESSEE	6,499.90	6,564.00
GENESE0	6,564.00	6,607.00
TULLY	6,607.00	6,626.30
HAMILTON	6,626.30	6,642.70
MARCELLUS	6,642.70	

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**513136- 47-017-05951-0000 - Stimulated Stages**

<b>Stage Number</b>	<b>Stimulation Date</b>	<b>Ave Pump Rate (BPM)</b>	<b>Ave Treatment Pressure (PSI)</b>	<b>Max Breakdown Pressure (PSI)</b>	<b>ISIP (PSI)</b>	<b>Amount of Proppant (lbs)</b>	<b>Amount of Water (bbls)</b>	<b>Amount of Nitrogen/other (units)</b>
Initiation Sleeve	5/4/2015	15.9	6624	8,640.00	3,883	0	447	0
1	5/4/2015	100	7865	8,308.00	4,622	200,650	6051	0
2	5/4/2015	100.7	7767	8,413.00	4,983	199,829	4973	0
3	5/4/2015	98.4	7872	8,970.00	5,634	200,018	5283	0
4	5/5/2015	98.8	7654	8,243.00	5,277	202,695	5213	0
5	5/5/2015	99.8	8143	8,628.00	4,849	200,126	5380	0
6	5/5/2015	99.7	8301	9,146.00	4,880	200,710	4835	0
7	5/5/2015	100.5	7777	8,322.00	5,198	199,953	4959	0
8	5/5/2015	100.5	7867	8,819.00	5,233	201,140	4942	0
9	5/5/2015	92.4	8686	9,836.00	6,884	202,475	5239	0
9.1	5/6/2015	10.9	4827	6,516.00	5,514	0	2762	0
10	5/6/2015	99.1	8403	9,273.00	5,421	201,875	4912	0
11	5/6/2015	99.1	7916	8,420.00	5,027	202,736	5007	0
12	5/6/2015	96.6	8017	8,426.00	5,634	202,695	4653	0
13	5/7/2015	99.1	7771	8,197.00	5,285	204,038	4763	0
14	5/7/2015	100	8077	8,981.00	5,473	201,518	4848	0
15	5/7/2015	100.1	7951	8,310.00	3,949	201,266	4820	0
16	5/7/2015	99.8	7833	8,664.00	5,101	204,111	4877	0
17	5/7/2015	99.50	7811	9,070.00	5,378	200,742	4,771	0
18	5/7/2015	100.20	7499	7,963.00	5,211	202,800	4,730	0
19	5/8/2015	100.10	7566	8,210.00	5,432	200,532	4,816	0
20	5/8/2015	100.10	7853	8,948.00	5,121	203,974	4,856	0
21	5/8/2015	100.80	7547	7,917.00	7,585	203,544	4,850	0
22	5/8/2015	100.30	7539	8,743.00	3,397	201,934	4,968	0

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Case No.	Case Name	Case Type	Case Status	Case Date	Case Location	Case Description	Case Notes
101	...	...	...	...	...	...	...
102	...	...	...	...	...	...	...
103	...	...	...	...	...	...	...
104	...	...	...	...	...	...	...
105	...	...	...	...	...	...	...
106	...	...	...	...	...	...	...
107	...	...	...	...	...	...	...
108	...	...	...	...	...	...	...
109	...	...	...	...	...	...	...
110	...	...	...	...	...	...	...
111	...	...	...	...	...	...	...
112	...	...	...	...	...	...	...
113	...	...	...	...	...	...	...
114	...	...	...	...	...	...	...
115	...	...	...	...	...	...	...
116	...	...	...	...	...	...	...
117	...	...	...	...	...	...	...
118	...	...	...	...	...	...	...
119	...	...	...	...	...	...	...
120	...	...	...	...	...	...	...

10/16/2015  
10/16/2015  
10/16/2015



# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	5/4/2015
Job End Date:	5/8/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-05951-00-00
Operator Name:	EQT Production
Well Name and Number:	513136
Longitude:	-80.80084300
Latitude:	39.22129300
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	6,643
Total Base Water Volume (gal):	4,744,110
Total Base Non Water Volume:	0



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## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	FTS International	Carrier/Base Fluid	Water	7732-18-5	100.00000	89.47720	None
Sand (Proppant)	FTS International	Proppant	Crystalline Silica	14808-60-7	100.00000	10.03348	None
MC MX 437-5	Multi-Chem	Calcium nitrate solution	Calcium nitrate	10124-37-5	60.00000	0.05618	None
Hydrochloric Acid (15%)	FTS International	Acidizing	Hydrochloric Acid	7647-01-0	15.00000	0.04389	None
FRW-900	FTS International	Friction reducer	Hydrotreated light distillate	64742-47-8	30.00000	0.02200	None
			Alkyl Alcohol	Proprietary	10.00000	0.00733	None
			Oxyalkylated alcohol A	Proprietary	5.00000	0.00367	None
CS-500	FTS International	Scale inhibitor	Ethylene glycol	107-21-1	10.00000	0.00252	None
HVG-1	FTS International	Gelling agent	Petroleum distillate	64742-47-8	55.00000	0.00096	None
			Guar gum	9000-30-0	50.00000	0.00087	None
			Surfactant	68439-51-0	2.00000	0.00003	None

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			Clay	14808-60-7	2.00000	0.00003	None
FE-100L	FTS International	Iron control					
			Citric acid	77-92-9	55.00000	0.00097	None
CI-150	FTS International	Acid Corrosion Inhibitor					
			Isopropanol	67-63-0	30.00000	0.00016	None
			Organic amine resin salt	Proprietary	30.00000	0.00016	None
			Ethylene glycol	107-21-1	30.00000	0.00016	None
			Quaternary ammonium compound	Proprietary	10.00000	0.00005	None
			Dimethylformamide	68-12-2	10.00000	0.00005	None
			Aromatic aldehyde	Proprietary	10.00000	0.00005	None
NE-100	FTS International	Non-emulsifier					
			2-Butoxyethanol	111-76-2	10.00000	0.00004	None
			2-Propanol	67-63-0	10.00000	0.00004	None
			Dodecylbenzenesulfonic acid	27176-87-0	5.00000	0.00002	None
APB-1	FTS International	Breaker					
			Ammonium persulfate	7727-54-0	95.00000	0.00002	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.

\* Total Water Volume sources may include fresh water, produced water, and/or recycled water  
 \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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**513136- 47-017-05951-0000 - Perforations**

<b>Stage Number</b>	<b>Perforation Date</b>	<b>Top Perf Depth (ftKB)</b>	<b>Bottom Perf Depth (ftKB)</b>	<b>Number of Shots</b>	<b>Formation</b>
<b>Initiation Sleeve</b>	1/17/2015	10,414.00	10,416.00	10	MARCELLUS
<b>1</b>	5/4/2015	10,269.00	10,390.00	32	MARCELLUS
<b>2</b>	5/4/2015	10,119.00	10,241.00	40	MARCELLUS
<b>3</b>	5/4/2015	9,969.00	10,087.00	40	MARCELLUS
<b>4</b>	5/4/2015	9,819.00	9,941.00	40	MARCELLUS
<b>5</b>	5/5/2015	9,669.00	9,791.00	40	MARCELLUS
<b>6</b>	5/5/2015	9,518.50	9,639.00	40	MARCELLUS
<b>7</b>	5/5/2015	9,369.00	9,489.00	40	MARCELLUS
<b>8</b>	5/5/2015	9,219.00	9,339.00	40	MARCELLUS
<b>9</b>	5/5/2015	9,069.00	9,189.00	40	MARCELLUS
<b>9.1</b>	5/5/2015	9,085.00	9,145.00	24	MARCELLUS
<b>10</b>	5/6/2015	8,919.00	9,039.00	40	MARCELLUS
<b>11</b>	5/6/2015	8,769.00	8,889.00	40	MARCELLUS
<b>12</b>	5/6/2015	8,619.00	8,739.00	40	MARCELLUS
<b>13</b>	5/7/2015	8,469.00	8,589.00	40	MARCELLUS
<b>14</b>	5/7/2015	8,319.00	8,439.00	40	MARCELLUS
<b>15</b>	5/7/2015	8,169.00	8,286.00	40	MARCELLUS
<b>16</b>	5/7/2015	8,019.00	8,139.00	40	MARCELLUS
<b>17</b>	5/7/2015	7,869.00	7,989.00	40	MARCELLUS
<b>18</b>	5/7/2015	7,724.00	7,839.00	40	MARCELLUS
<b>19</b>	5/8/2015	7,569.00	7,689.00	40	MARCELLUS
<b>20</b>	5/8/2015	7,419.00	7,539.00	40	MARCELLUS
<b>21</b>	5/8/2015	7,269.00	7,389.00	40	MARCELLUS
<b>22</b>	5/8/2015	7,119.00	7,239.00	40	MARCELLUS

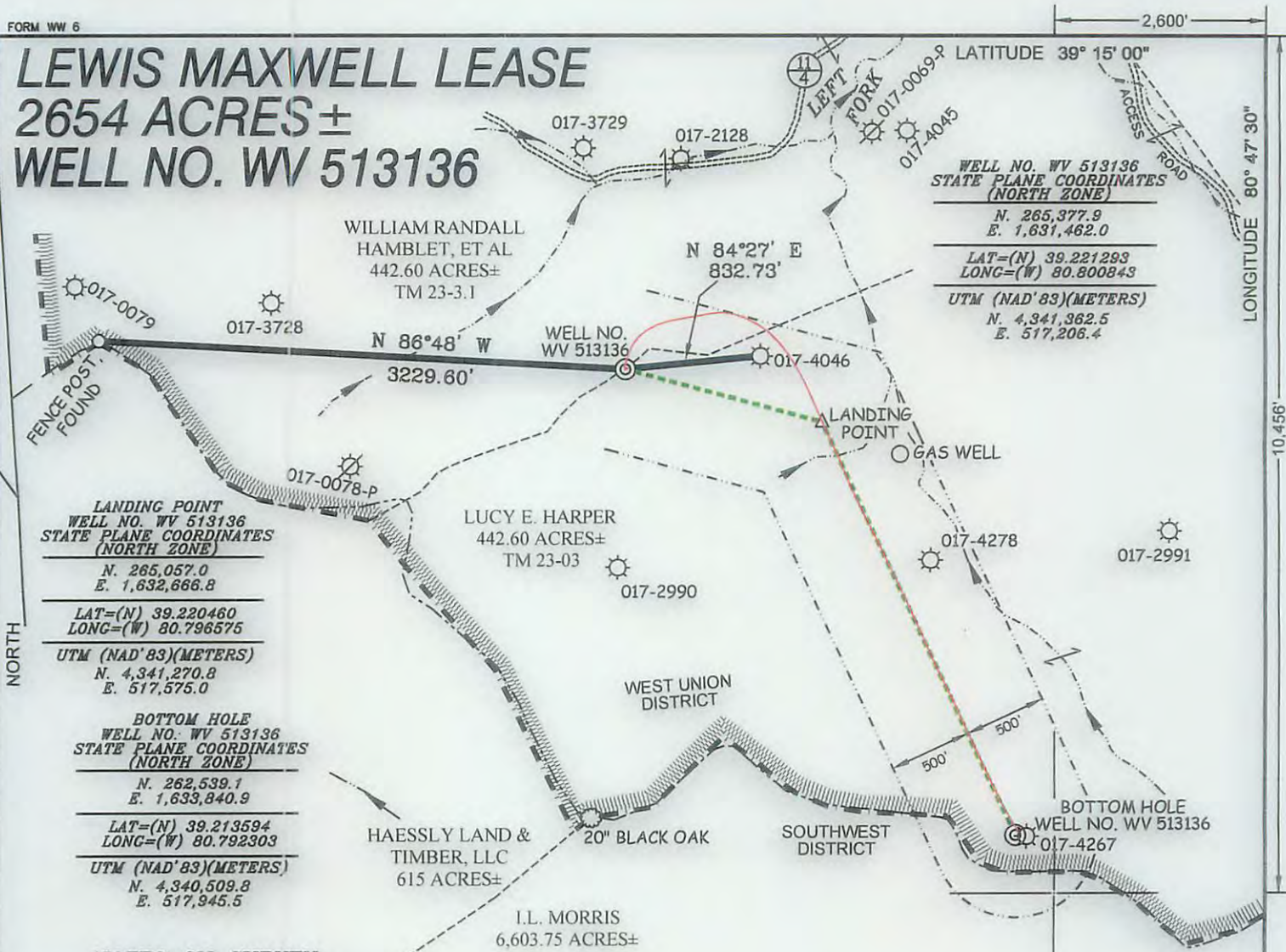
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# LEWIS MAXWELL LEASE

## 2654 ACRES ±

### WELL NO. WV 513136



WELL NO. WV 513136  
STATE PLANE COORDINATES  
(NORTH ZONE)  
N. 265,377.9  
E. 1,631,462.0  
LAT=(N) 39.221293  
LONG=(W) 80.800843  
UTM (NAD'83)(METERS)  
N. 4,341,362.5  
E. 517,206.4

LANDING POINT  
WELL NO. WV 513136  
STATE PLANE COORDINATES  
(NORTH ZONE)  
N. 265,057.0  
E. 1,632,666.8  
LAT=(N) 39.220460  
LONG=(W) 80.796575  
UTM (NAD'83)(METERS)  
N. 4,341,270.8  
E. 517,575.0

BOTTOM HOLE  
WELL NO. WV 513136  
STATE PLANE COORDINATES  
(NORTH ZONE)  
N. 262,539.1  
E. 1,633,840.9  
LAT=(N) 39.213594  
LONG=(W) 80.792303  
UTM (NAD'83)(METERS)  
N. 4,340,509.8  
E. 517,945.5

#### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 28 PAGE 177.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2013.
4. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SURVEY GRADE TIE TO CORS NETWORK).
5. PLAT DATED 03/08/09 REVISED 03/11/10 TO EXTEND HORIZONTAL LEG AND CHANGE BOTTOM HOLE COORDINATES, REVISED 06/07/13 TO CHANGE TOP HOLE COORDINATES, REVISED 08/12/13 TO ADD 500' OFFSET ETC.
6. AS DRILLED INFORMATION PROVIDED BY EQT.

#### LEGEND

AS DRILLED ———  
PROPOSED - - - - -

#### AS DRILLED INFORMATION

BOTTOM HOLE WELL NO. WV 513136 STATE PLANE COORDINATES (NORTH ZONE)	WELL NO. WV 513136 STATE PLANE COORDINATES (NORTH ZONE)
N. 262,555.2 E. 1,633,857.4	N. 265,377.9 E. 1,631,462.0
LAT=(N) 39.213639 LONG=(W) 80.792246	LAT=(N) 39.221293 LONG=(W) 80.800843
UTM (NAD'83)(METERS) N. 4,340,514.7 E. 517,950.5	UTM (NAD'83)(METERS) N. 4,341,362.5 E. 517,206.4



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE AUGUST 29, 20 13  
REVISED DATE DECEMBER 05, 20 14  
OPERATORS WELL NO. WV 513136  
API WELL NO. 47-017-05951  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6980ASDRILLED513136  
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 1,000'

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

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW

LOCATION: ELEVATION 1,240'(GROUND) 1,242.5'(PROPOSED) WATERSHED LEFT FORK  
DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER LUCY E. HARPER ACREAGE 442.6±  
ROYALTY OWNER LEWIS MAXWELL HEIRS LEASE ACREAGE 2,654± LEASE NO. 080616

PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD \_\_\_  
FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_ OTHER \_\_\_  
PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION MARCELLUS ESTIMATED DEPTH

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

10/16/2015