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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

[www.dep.wv.gov](http://www.dep.wv.gov)

WELL WORK PERMIT  
/

Re: Permit approval for

This well work permit 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 any additional specific 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

Chief 

Operator's Well Number:  
Farm Name:  
U.S. WELL NUMBER:

Date Issued:

**PERMIT CONDITIONS**

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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**CONDITIONS**

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

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

Date: December 1, 2017  
Operator's Well  
Well No. 518054 (Lucey 1H)  
API Well No.: 47 051 - 01382

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

CK #  
25321  
100

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: 1296 Watershed: Burch Run  
Location: Cameron County: Marshall Quadrangle: Cameron  
District: \_\_\_\_\_

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

7) Designated Agent: Jason Ranson  
Address: 120 Professional Place  
Bridgeport, WV 26330

8) Oil & Gas James Nicholson  
Name: PO Box 44  
Address: Moundsville WV 26041

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.**

RECEIVED  
Office of Oil and Gas

FEB 15 2018

WV Department of  
Environmental Protection

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

*[Signature]*

Date 1/29/18

Lucey 1H  
Marshall Co., WV  
HZ Marcellus well  
API # 47-051-01382  
BY:  
DATE: 11/3/17

**CURRENT STATUS:**

26" conductor @ 80'  
16" casing @ 1000' Cemented to Surface  
13 3/8" casing @ 1291' Est. TOC @ 308' if use 19 1/2" hole size, TOC @ Surface if use 14 3/4" Hole size  
9 5/8" casing @ 2992' Cemented to Surface  
5 1/2" casing @ 11,268' Measured depth - Cemented to Surface  
CIBP @ 6,775'  
Cement Plug from 6775' to 6075'  
Gel from 6075' to 2890'  
Cement from 2890' to 2660'  
Cement from 1190' to Surface - Drilled out with 3 3/4" Bit

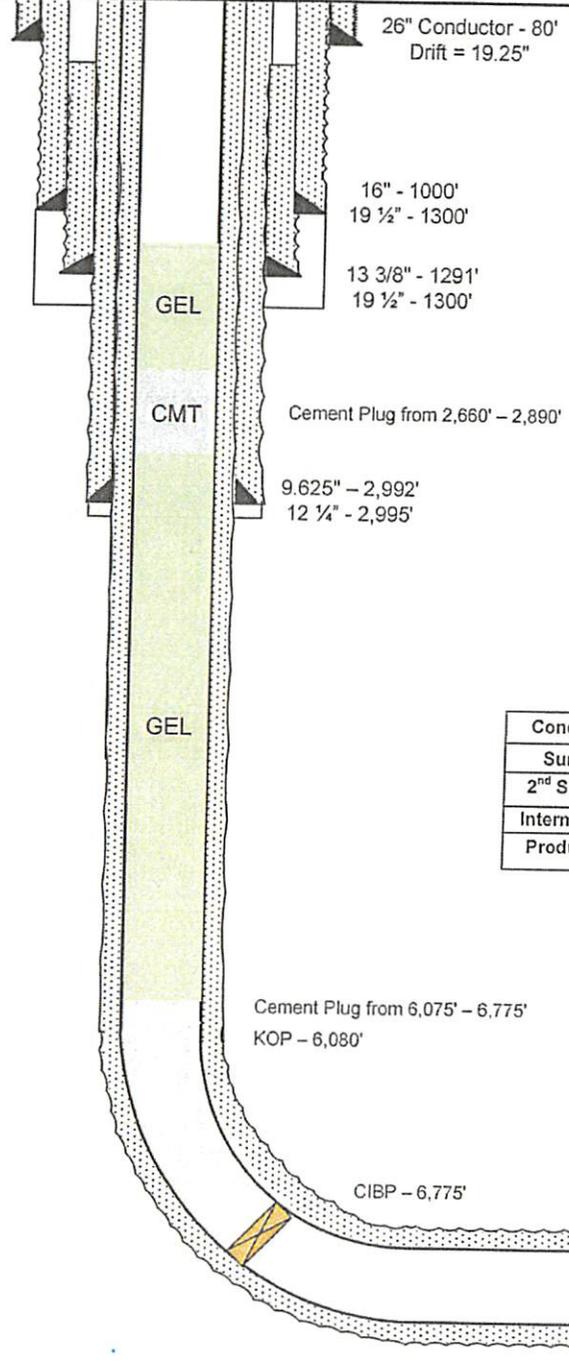
Coal @ N/A  
Fresh Water @ N/A  
Salt Water @ N/A  
Gas Shows @ N/A

1. Notify Inspector 24 hrs prior to moving on well.
2. Check pressure on all casings.
3. Bleed off pressure to tank on 5 1/2" casing and 9 5/8" casing.
4. TIH with tubing to tag cement plug @ 2,660'.
5. Set 600' CI. A cement plug from 2,660' to 2,060'.
6. TOOH with tubing, WOC to cure. Check cement top, if cement top is at planned depth proceed to next step. If cement top has fallen, reset cement plug to planned depth.
7. TIH with tubing to 2,060', set 600' CI. A cement plug from 2,060' - 1,460', TOOH with tubing and let cement cure.
8. Check TD of cement top, if cement top is at planned depth proceed to next step. If cement top has fallen, reset cement plug to planned depth.
9. TIH with tubing to 1,460', set 600' CI. A cement plug from 1,460' to 860'. TOOH with tubing and let cement cure.
10. Check TD of cement top, if cement top is at planned depth proceed to next step. If cement top has fallen, reset cement plug to planned depth.
11. TIH with tubing to 860', set 600' CI. A cement plug from 860' to 260'. TOOH with tubing and let cement cure.
12. TIH with tubing to 260', set 260' CI. A cement plug from 260' to Surface. TOOH with tubing and let cement cure.
13. Erect monument per WV DEP Specifications with API#, date plugged, company name, and company 6-digit ID#.

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JAN 23 2018

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EQT		5.5" Production Casing	
Well	: Lucey 1H	Rig	: UNK
Pad	: Lucey	Prospect	: Marcellus
County	: Marshall	State	: WV
Location	: Lat:	Long:	
BHL	: Lat:	Long:	
KB Elev	: UNK	KB	: UNK
		GL Elev	: UNK



TYPE	FROM	TO
Elec. Bridge	6775'	6075'
Cement	2890'	2660'
Cement	1190'	990'
Cement	976'	776'
Cement	776'	576'

\* cement plugs w/gel spacers

Current State:  
The cement was drilled out to 1192' w/ 3 3/4" Blade Bit and a multi caliper log was run along with a CBL from 1182' to surface.

Tubular Detail

	Size	Weight	Grade	Cxn	From	To	TOC	Bbls
Conductor	26"	.375w	A-500	Weld	0'	80'	UNK	UNK
Surface	16"	UNK	UNK	UNK	0'	1000'	Surf.	224
2 <sup>nd</sup> Surface	13 3/8"	UNK	UNK	UNK	0'	1291'	308'	90
Intermediate	9.625"	36#	UNK	STC	0'	2992'	Surf.	334
Production	5.5"	20#	P-110	RTC 40/40	0'	11,268'	Surf.	646

13 3/8" may be cemented to surface based on hole size

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Landing Point  
7,212' MD

TD  
11,268' MD  
8 3/4"

Version 1 - Option 1

Lucey 1H  
SI-01382 P

**Perforated Intervals, Fracturing or Stimulating:**

<b>TOTAL WATER: 132,918 BBL; TOTAL SAND: 5,985,530 LB</b>
10,921 x 11,222 - 40 holes; 10,843 x 10,844 - 41 holes; 10,788 x 10,789 - 41 holes; 10,719 x 10,720 - 41 holes;
10,633 x 10,634 - 41 holes; 10,590 x 10,591 - 41 holes; 10,506 x 10,507 - 41 holes; 10,453 x 10,454 - 41 holes;
10,375 x 10,376 - 41 holes; 10,336 x 10,337 - 41 holes; 10,270 x 10,271 - 41 holes; 10,171 x 10,172 - 41 holes;
10,090 x 10,091 - 41 holes; 10,015 x 10,016 - 41 holes; 9,965 x 9,966 - 41 holes; 9,885 x 9,886 - 41 holes;
9,780 x 9,781 - 38 holes; 9,730 x 9,731 - 38 holes; 9,730 x 9,731 - 38 holes; 9,588 x 9,589 - 38 holes;
9,490 x 9,491 - 41 holes; 9,445 x 9,446 - 41 holes; 9,360 x 9,361 - 41 holes; 9,290 x 9,291 - 41 holes;
9,252 x 9,253 - 41 holes; 9,163 x 9,164 - 41 holes; 9,065 x 9,066 - 41 holes; 9,018 x 9,019 - 41 holes;
8,960 x 8,961 - 41 holes; 8,905 x 8,906 - 41 holes; 8,810 x 8,811 - 41 holes; 8,745 x 8,746 - 41 holes;
8,675 x 8,676 - 41 holes; 8,600 x 8,601 - 41 holes; 8,558 x 8,559 - 41 holes; 8,464 x 8,465 - 41 holes;
8,402 x 8,403 - 41 holes; 8,340 x 8,341 - 41 holes; 8,265 x 8,266 - 41 holes; 8,190 x 8,191 - 41 holes;
8,110 x 8,111 - 41 holes; 8,020 x 8,021 - 41 holes; 7,933 x 7,936 - 41 holes; 7,870 x 7,871 - 41 holes;
7,804 x 7,805 - 41 holes; 7,740 x 7,741 - 41 holes; 7,670 x 7,671 - 41 holes; 7,600 x 7,601 - 41 holes;
7,510 x 7,511 - 41 holes; 7,455 x 7,456 - 41 holes; 7,388 x 7,389 - 37 holes; 7,310 x 7,311 - 37 holes;
7,260 x 7,261 - 37 holes; 7,180 x 7,181 - 37 holes; 7,130 x 7,131 - 37 holes;

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FORMATION ENCOUNTERED	TOP DEPTH (FT.)	BOTTOM DEPTH (FT.)	NOTES
Surface Casing		2995'	
Gordon	Not Logged	Not Logged	
Upper Devonian Shale	Not Logged	6542'	Depth from open hole pilot logs.
Middlesex	6592'	6605'	
Burket Shale	6605'	6652'	
Tully Limestone	6652'	6680'	
Upper Hamilton Group	6680'	6779'	
Marcellus Shale	6779'	6830'	
Onondaga Limestone	6830'	-	

**Plugging Information:**

Type	From	To	Pipe Removed	Left
Bridge	6775'	6075'	0	80' of 26"
Cement	2890'	2660'	0	1000' of 16"
Cement	1190'	990'	0	1291 of 13 3/8"
Cement	976'	776'	0	2992 of 9 5/8"
Cement	776	576	0	11268 of 5 1/2"
Cement	576	0	0	

\*Gel spacers in between plugs.

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JAN 23 2018  
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Environmental Protection

**Drill Out Ops:**

The cement was drilled out to 1192' and was logged from 1190' to surface.

WR-35  
Rev (8-10)

DATE: 10/31/11  
API#: 47-051-01382

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

Form name: Luccy  
LOCATION: Elevation: 1296'  
District: Cameron

Operator Well No.: 1H  
Quadrangle: Cameron  
County: Marshall

Latitude: 3,150' Feet South of 39 Deg. 52 Min. 30 Sec.  
Longitude: 14,160 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: TRANS ENERGY, INC.  
Address: P. O. Box 393  
St. Marys, WV 26170

Agent: Loren Bagley  
Inspector: Bill Hendershot  
Date Permit Issued: 10/9/2009  
Date Well Work Commenced: 1/5/2011  
Date Well Work Completed: 2/16/2011  
Verbal Plugging: N/A  
Date Permission Granted On: N/A  
Drill Type:  Rotary  Cable  Rig  
Total Vertical Dept (ft.): 6,733  
Total Measured Depth (ft.): 11,268  
Is coal being mined in area (N/Y)? Y  
Coal Depths (ft.): 876  
Void(s) Encountered (N/Y)? N Depth:

Casing Tubing Diameter	Used in Drilling	Left in Well	Cement Fill
26"	80'	80'	Surface
16"	1,000'	1,000'	Surface
13 3/8"	1,291'	1,291'	Surface
9 5/8"	2,992'	2,992'	Surface
5 1/2"	11,268'	11,268'	Surface

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MAR 1-8 2013

WV Department of  
Environmental Protection

OPEN FLOW DATA

1ST PRODUCING FORMATION: MARCELLUS PAY ZONE DEPTH (FT.): 6,779

<b>GAS:</b>		<b>OIL:</b>	
INITIAL OPEN FLOW:	4,000 MCF/d	INITIAL OPEN FLOW:	25.60 Bbl/d
FINAL OPEN FLOW:	MCF/d	FINAL OPEN FLOW:	Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:		HOURS	
Static Rock Pressure:	3,500 psig (surface pressure) after	HOURS	

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):

<b>GAS:</b>		<b>OIL:</b>	
INITIAL OPEN FLOW:	MCF/d	INITIAL OPEN FLOW:	Bbl/d
FINAL OPEN FLOW:	MCF/d	FINAL OPEN FLOW:	Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:		HOURS	
Static Rock Pressure:	psig (surface pressure) after	HOURS	

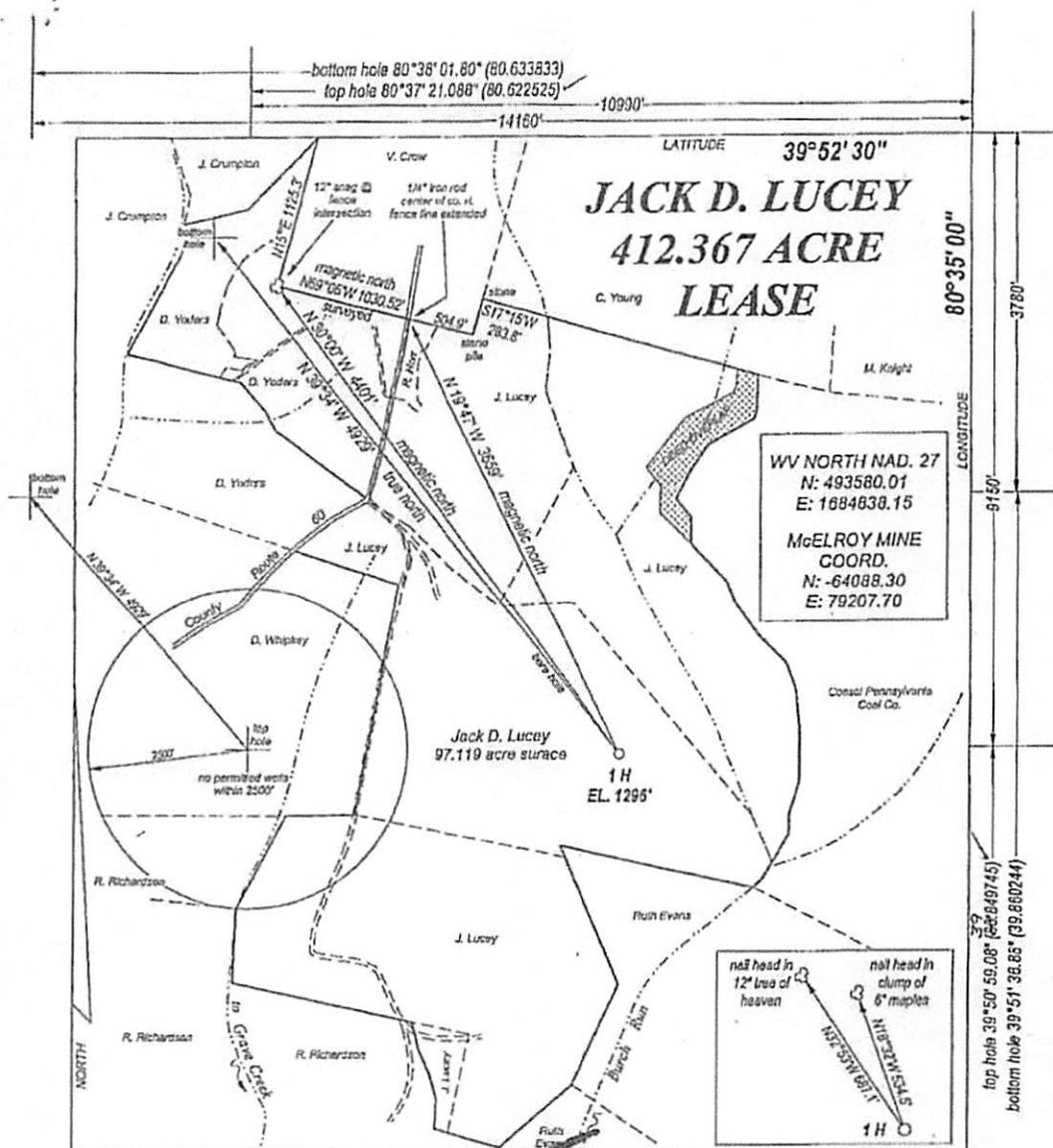
I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete.

Company Name: TRANS ENERGY, INC

Signature: *W. F. Woodburn*  
Name (Printed): William F. Woodburn  
Date: 10/31/11

Office of Oil and Gas  
JAN 23 2013  
WV Department of Environmental Protection





FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION GPS OBSERVATION

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 ENFORCED BY THE DEPARTMENT OF ENERGY.

*[Signature]*  
 (SIGNED) \_\_\_\_\_  
 PROFESSIONAL SURVEYOR; 551

WILLIAM R. MOSSOR  
 SURVEYOR  
 No. 551  
 STATE OF WEST VIRGINIA  
 PROFESSIONAL

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 DIVISION OF OIL AND GAS

DATE MAY 14TH, 2010  
 OPERATORS WELL NO. LUCEY 1H

**API 47 - 051 - 01382H**  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1295' WATER SHED BURCH RUN OF GRAVE CREEK  
 DISTRICT CAMERON COUNTY MARSHALL QUADRANGLE CAMERON

SURFACE OWNER JACK D. LUCEY & SHARON L. LUCEY ACREAGE 97.119  
 OIL & GAS ROYALTY JACK D. LUCEY & SHARON L. LUCEY LEASE AC. 412.367

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

TARGET FORMATION MARCELLUS SHALE ESTIMATED DEPTH 700'

WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT MARY BAGLEY  
 ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393  
ST. MARYS, WV 26170 ST. MARYS, WV 26170

Received  
 JUN - 3 2014  
 Office of Oil and Gas  
 WV Dept. of Environmental Protection  
 ST. MARYS, WV 26170

WW-4-A  
Revised 6/07

- 1) Date: December 1, 2017
- 2) Operator's Well Number  
518054 (Lukey 1H)
- 3) API Well No.: 47 051 - 01382  
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**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Jack and Sharon</u> Address <u>838 Glen Easton Rd</u> <u>Glen Easton WV 26039</u></p> <p>(b) Name <u>Donald and Mary Yoder</u> Address <u>309 Hoopin Hollar Ln.</u> <u>Glen Easton WV 26039</u></p> <p>(c) Name _____ Address _____</p> <p>6) Inspector <u>James Nicholson</u> Address <u>PO Box 44</u> <u>Moundsville WV 26041</u> Telephone <u>304-552-3874</u></p>	<p>5) (a) Coal Operator: Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>Murray Energy Corp</u> <u>46226 National Road W</u> Address <u>St. Clairsville OH 43950</u></p> <p>(c) Coal Lessee with Declaration Name _____ Address _____</p>
---	--

**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.

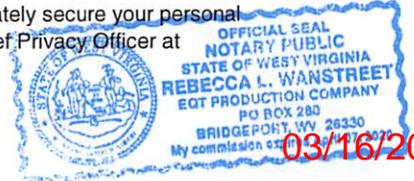
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental 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:	<u>EQT Production Company</u>
By:	<u>Todd Klaner</u>
Its:	<u>Regional Land Manager</u>
Address:	<u>2400 Ansys Drive</u> <u>Canonsburg PA 15317</u>
Telephone:	<u>724-746-9023</u>

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Office of Oil and Gas  
JAN 23 2018

Subscribed and sworn before me this 22 day of January, 2018  
Rebecca L. Wanstreet Notary Public, Department of Environmental Protection  
My Commission Expires: 4-7-2020

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).



03/16/2018

WW-9  
Revised 5/16

Page 1 of 2  
2) Operator's Well Number  
518054 (Lucey 1H)  
3) API Well No.: 47 051 - 01382

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL & GAS  
FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name: EQT PRODUCTION COMPANY OP CODE: 306686

Watershed (HUC 10): Burch Run Quadrangle: Cameron

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

Will a pit be used? Yes \_\_\_ No X

If so, please describe anticipated waste: Formation Fluids

Will a synthetic liner be used in the pit? Yes \_\_\_ No X Is so, what ml.?

Proposed Disposal Method for Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number \_\_\_\_\_)
- Reuse (at API Number -- Various \_\_\_\_\_)
- Off Site Disposal Permit (Supply form WW-9 for disposal location. See attachment)
- Other: (Explain \_\_\_\_\_)

WELL EFFLUENT WILL BE CONTAINED IN TANKS UNTIL DISPOSED. gms

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, 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? \_\_\_\_\_

Permittee shall provide written notice to the Office of the Oil and Gas of any load of drill cuttings or associated waste rejected at a 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 April 1, 2016, 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 term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

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 [Signature]

Company Official (Typed Name) JOHN ZAVATCHAN

Company Official Title LANOINER - PERMITTING

Subscribed and sworn before me this 5<sup>th</sup> day of March, 2018



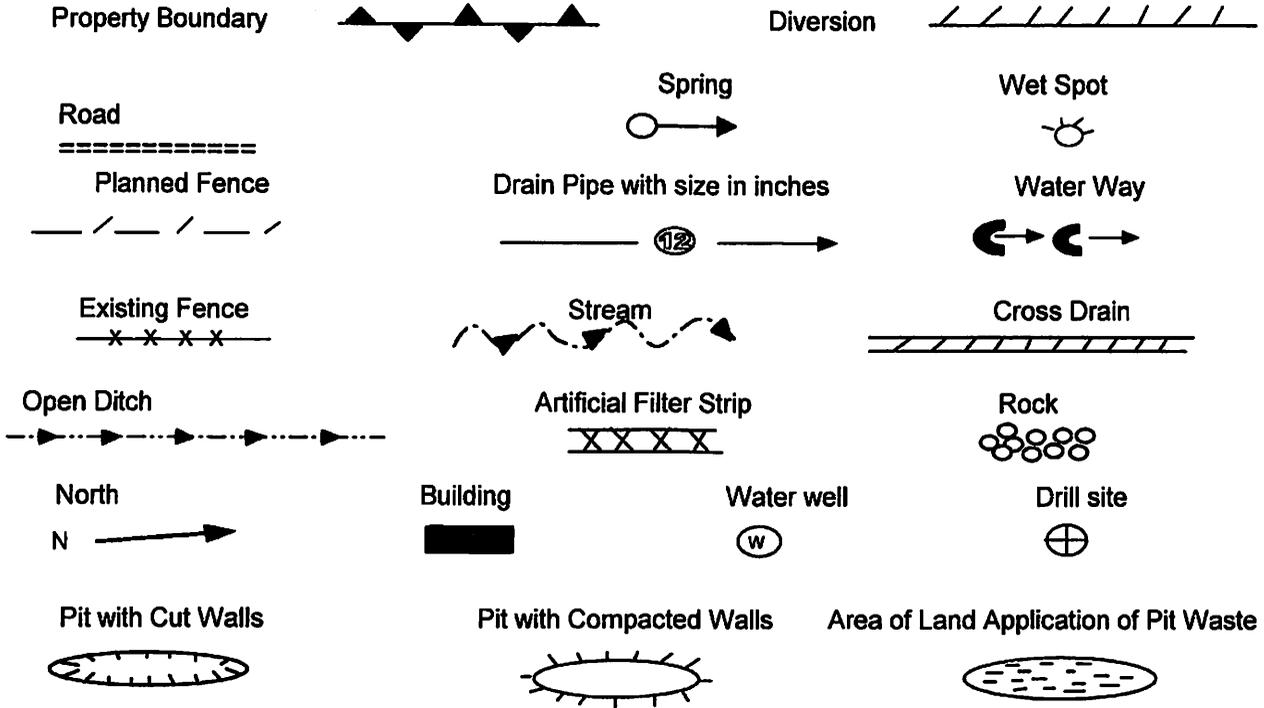
Rebecca L. Wainwright Notary Public  
4-7-2020

03/16/2018

47-051-01382

**OPERATOR'S WELL NO.:**  
**518054 (Lucey 1H)**

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH         

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
Red Fescue	40	Red Fescue	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: \_\_\_\_\_

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

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed?          Yes          No

**EQT Production Water plan**  
**Offsite disposals****Waste Management - Meadowfill Landfill**

Rt. 2, Box 68 Dawson Drive  
Bridgeport, WV 26330  
304-326-6027  
Permit #SWF-1032-98  
Approval #100785WV

**Waste Management - Northwestern Landfill**

512 E. Dry Road  
Parkersburg, WV 26104  
304-428-0602  
Permit #SWF-1025 WV-0109400  
Approval #100833WV

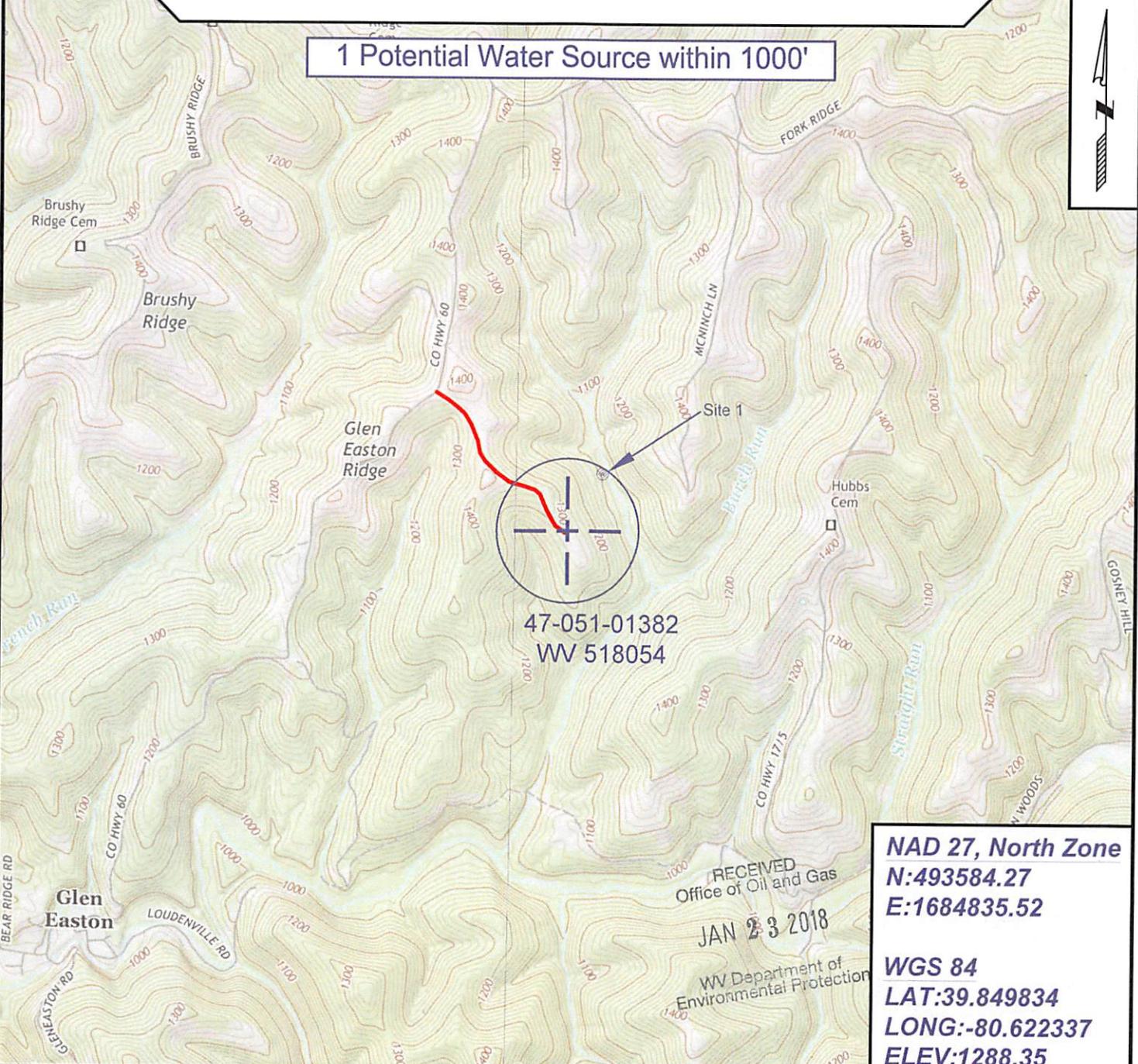
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Office of Oil and Gas  
JAN 23 2018  
WV Department of  
Environmental Protection

Topo Quad: Cameron 7.5" Scale: 1" = 2000'  
 County: Marshall Date: November 17, 2017  
 District: Cameron Project No: 296-44-00-17

Water

# 47-051-01382 WV 518054 (Lucey #1H)

1 Potential Water Source within 1000'



47-051-01382  
WV 518054

RECEIVED  
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 JAN 23 2018  
 WV Department of  
 Environmental Protection

NAD 27, North Zone  
 N:493584.27  
 E:1684835.52

WGS 84  
 LAT:39.849834  
 LONG:-80.622337  
 ELEV:1288.35



SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

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



## POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
 LEASE NAME AND WELL No. Lucey #1H WV 518054 47-051-01382

### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 927 +/- Owner: Jack D. Lucey, et ux.  
 Address: 838 Glen Easton Road, Glen Easton, WV 26039 Phone No. \_\_\_\_\_  
 Comments: \_\_\_\_\_

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Office of Oil and Gas

JAN 23 2018

WV Department of  
Environmental Protection

#### BIRCH RIVER OFFICE

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

#### ALUM CREEK OFFICE

P.O. Box 108 • 1413 Childress Rd  
Alum Creek, WV 25003  
phone: 304-756-2949  
fax: 304-756-2948

#### MARTINSBURG OFFICE

25 Lights Addition Drive  
Martinsburg, WV 25404  
phone: 304-901-2162  
fax: 304-901-2182

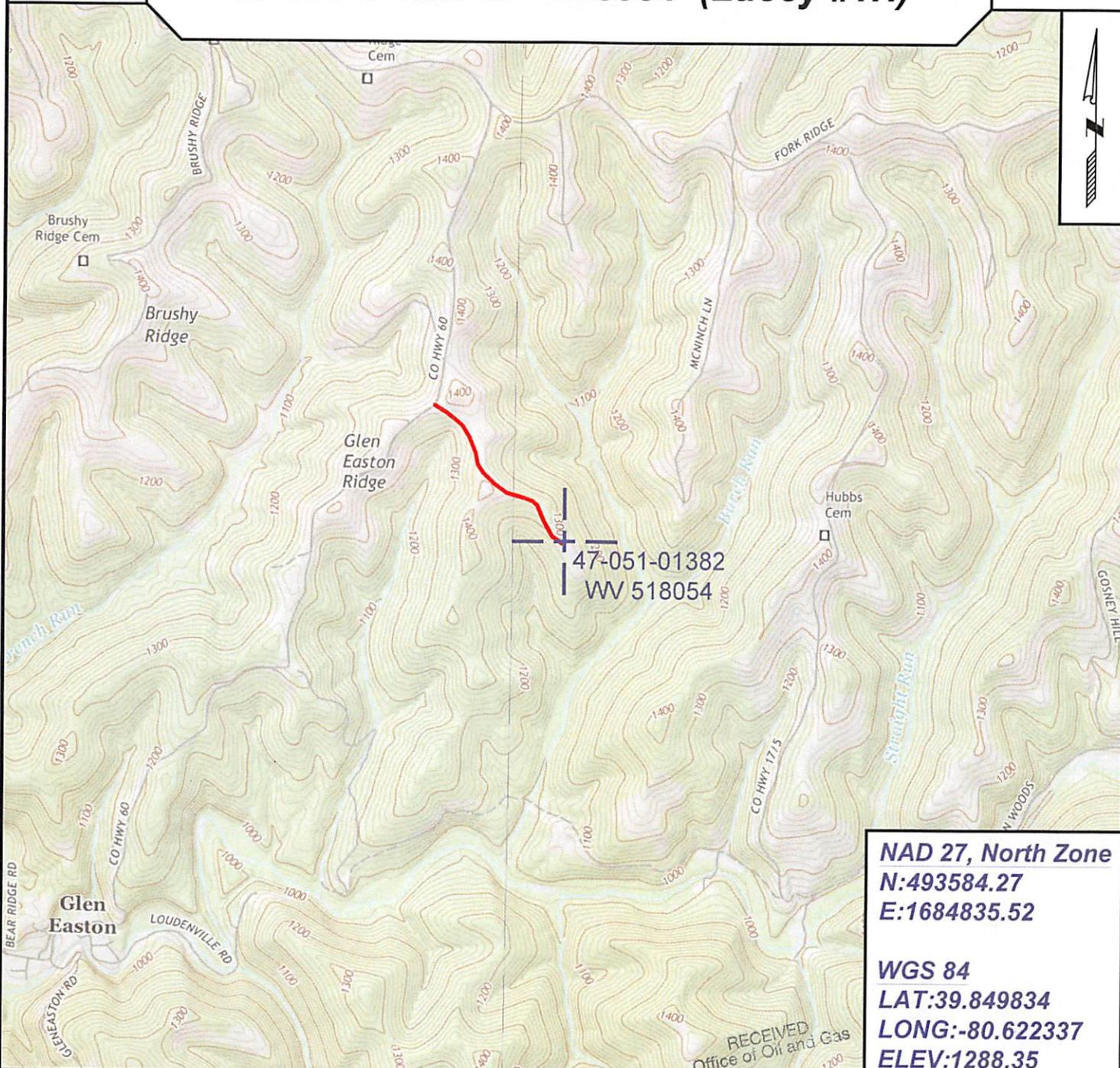
Topo Quad: Cameron 7.5" Scale: 1" = 2000'

County: Marshall Date: November 17, 2017

District: Cameron / Project No: 296-44-00-17

# 47-051-01382 WV 518054 (Lucey #1H)

Topo



47-051-01382  
WV 518054

**NAD 27, North Zone**  
**N:493584.27**  
**E:1684835.52**

**WGS 84**  
**LAT:39.849834**  
**LONG:-80.622337**  
**ELEV:1288.35**

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SURVEYING AND MAPPING SERVICES PERFORMED BY:  
**ALLEGHENY SURVEYS, INC.**  
 1-800-482-8606  
 237 Birch River Road  
 Birch River, WV 26610  
 PH: (304) 649-8606  
 FAX: (304) 649-8608

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

WW-7  
8-30-06



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

API: 47-051-01382 WELL NO.: WV 518054 (Lucey #1H)

FARM NAME: Jack D. Lucey

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron 7.5'

SURFACE OWNER: Jack & Sharon Lucey

ROYALTY OWNER: Jack & Sharon Lucey

UTM GPS NORTHING: 4411159

UTM GPS EASTING: 532308 GPS ELEVATION: 393 m (1288 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.

Signature

PS # 2180  
Title

11/27/17  
Date