



west virginia department of environmental protection

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

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

A handwritten signature in blue ink, appearing to read 'G. J. ...', is written over a faint blue line.

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.

CONDITIONS

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.

Lucey 2H
 Marshall Co., WV
 HZ Marcellus well
 API # 47-051-01477
 BY:
 DATE: 11/3/17

CURRENT STATUS:

26" conductor @ 80'
 16" casing @ 1038' Cemented to Surface
 13 3/8" casing @ 1300' Est. TOC @ 167' if use 19 1/2" hole size, **TOC @ Surface if use 14 3/4" Hole size**
 9 5/8" casing @ 3018' Cemented to Surface
 5 1/2" casing @ 10,145' Measured depth – Cemented to Surface
 CIBP @ 6,775'
 Cement Plug from 6775' to 6075'
 Gel from 6075' to 2890'
 Cement from 2890' to 2660'
 Gel from 2660' to 1190'
 Cement from 1190' to 576' – **Drilled out with 4 1/2" Bit to 1203'**

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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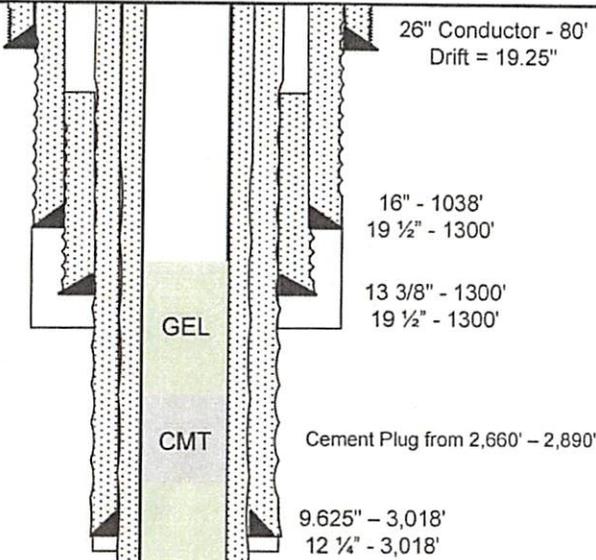
EQT

5.5" Production Casing

Well : Lucey 2H
 Pad : Lucey
 County : Marshall
 Location : Lat: Long:
 BHL : Lat: Long:
 KB Elev : UNK

Rig : UNK
 Prospect : Marcellus
 State : WV

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 1203' w/ 4 1/2" Tricone Bit and pressure test well to 5,000 psi, pressure held.

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' | 1038' | Surf. | 224 |
| 2 nd Surface | 13 3/8" | UNK | UNK | UNK | 0' | 1300' | 167' | 90 |
| Intermediate | 9.625" | 36# | UNK | STC | 0' | 3018' | Surf. | 334 |
| Production | 5.5" | 20# | P-110 | RTC 40/40 | 0' | 10,145' | Surf. | 646 |

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

Cement Plug from 6,075' - 6,775'
 KOP - 6,183'

CIBP - 6,775'

Landing Point
 7,212' MD

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TD
 11,268' MD
 8 3/4"

Version 1 - Option 1

Perforated Intervals, Fracturing or Stimulating:

| |
|-----------------------------------|
| Stage 1) 10,088 to 9,921 88 holes |
| Stage 2) 9,882 to 9,706 41 holes |
| Stage 3) 9,696 to 9,406 41 holes |
| Stage 4) 9,446 to 9,276 41 holes |
| Stage 5) 9,211 to 9,046 41 holes |
| Stage 6) 8,936 to 8,836 41 holes |
| Stage 7) 8,771 to 8,611 41 holes |
| Stage 8) 8,551 to 8,381 41 holes |
| Stage 9) 8,311 to 8,121 41 holes |
| Stage 10) 8,161 to 7,872 41 holes |
| Stage 11) 7,818 to 7,572 41 holes |
| Stage 12) 7,484 to 7,341 26 holes |

| FORMATION ENCOUNTERED | TOP DEPTH (FT.) | BOTTOM DEPTH (FT.) | NOTE |
|-----------------------|-----------------|--------------------|-------|
| Surface Casing | | 8,018 | 3,018 |
| Gordon | Not logged. | Not logged. | |
| Upper Devonian Shale | Not logged. | 6,542 | |
| Middlesex | 6,532 | 6,605 | |
| Burket Shale | 6,605 | 6,652 | |
| Tully Limestone | 6,552 | 6,680 | |
| Upper Hamilton Group | 6,680 | 6,779 | |
| Marcellus Shale | 6,779 | 6,830 | |
| Onondaga Limestone | 6,830 | - | |
| | KOP 6,200' | | |

Plugging Information:

| Type | From | To | Pipe Removed | Left |
|--------|-------|-------|--------------|------------------|
| Bridge | 6775' | 6075' | 0 | 80' of 26" |
| Cement | 2890' | 2660' | 0 | 1038' of 16" |
| Cement | 1190' | 990' | 0 | 1300' of 13 3/8" |
| Cement | 976' | 776' | 0 | 3018' of 9 5/8" |
| Cement | 776' | 576' | 0 | 10200' of 5 1/2" |

*Gel spacers in between plugs.

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Drill Out Ops:

The cement was drilled out to 1203'. PSI tested casing to 5,000 psi and pressure held for 30 minutes. Shut down.

5701477PP

WR-85
Rev (9-10)

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

DATE: 11/05/12
Resubmitted of 4/17/12 report.
API#: 47-051-01477

Farm name: Lucy
LOCATION: Elevation: 1296'
District: Cameron

Operator Well No.: 2H
Quadrangle: Cameron
County: Marshall

Latitude: 9.145' Feet South of 89 Deg. 52 Min. 30 Sec.
Longitude: 10.780 Feet West of 80 Deg. 35 Min. 00 Sec.

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

Agent: Loren Bagley
Inspector: Derek Haught
Date Permit Issued: 6/22/2011
Date Well Work Commenced: 8/20/2011
Date Well Work Completed: 10/25/2011
Verbal Plugging: N/A
Date Permission Granted On: N/A

| Casing Tubing Diameter | Used in Drilling | Left in Well | Cement Fill |
|------------------------|------------------|--------------|-------------|
| 26 | 80 | 80 | Surface |
| 16 | 1038 | 1038 | Surface |
| 13 3/8 | 1900 | 1900 | 900' |
| 9 5/8 | 3018 | 3018 | Surface |
| 5.5 | | 10,200 | Surface |
| | | | |
| | | | |

Drill Type: Rotary Cable Rig
Total Vertical Depth (ft.): 6,786
Total Measured Depth (ft.): 10,145
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 876
Vold(s) Encountered (N/Y)? N Depth:

OPEN FLOW DATA

1ST PRODUCING FORMATION: MARCELLUS PAY ZONE DEPTH (FT.): 6,779
GAS:
INITIAL OPEN FLOW: 4,400 MCF/d
FINAL OPEN FLOW: MCF/d
OIL:
INITIAL OPEN FLOW: 32.0 Bbl/d
FINAL OPEN FLOW: Bbl/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS: HOURS
Static Rock Pressure: 3,550 psig (surface pressure) after HOURS

2ND PRODUCING FORMATION: PAY ZONE DEPTH (FT.):
GAS:
INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d
OIL:
INITIAL OPEN FLOW: Bbl/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: [Signature]
Name (Printed): Bill Woodburn
Date: 11/5/12

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JAN 23 2018

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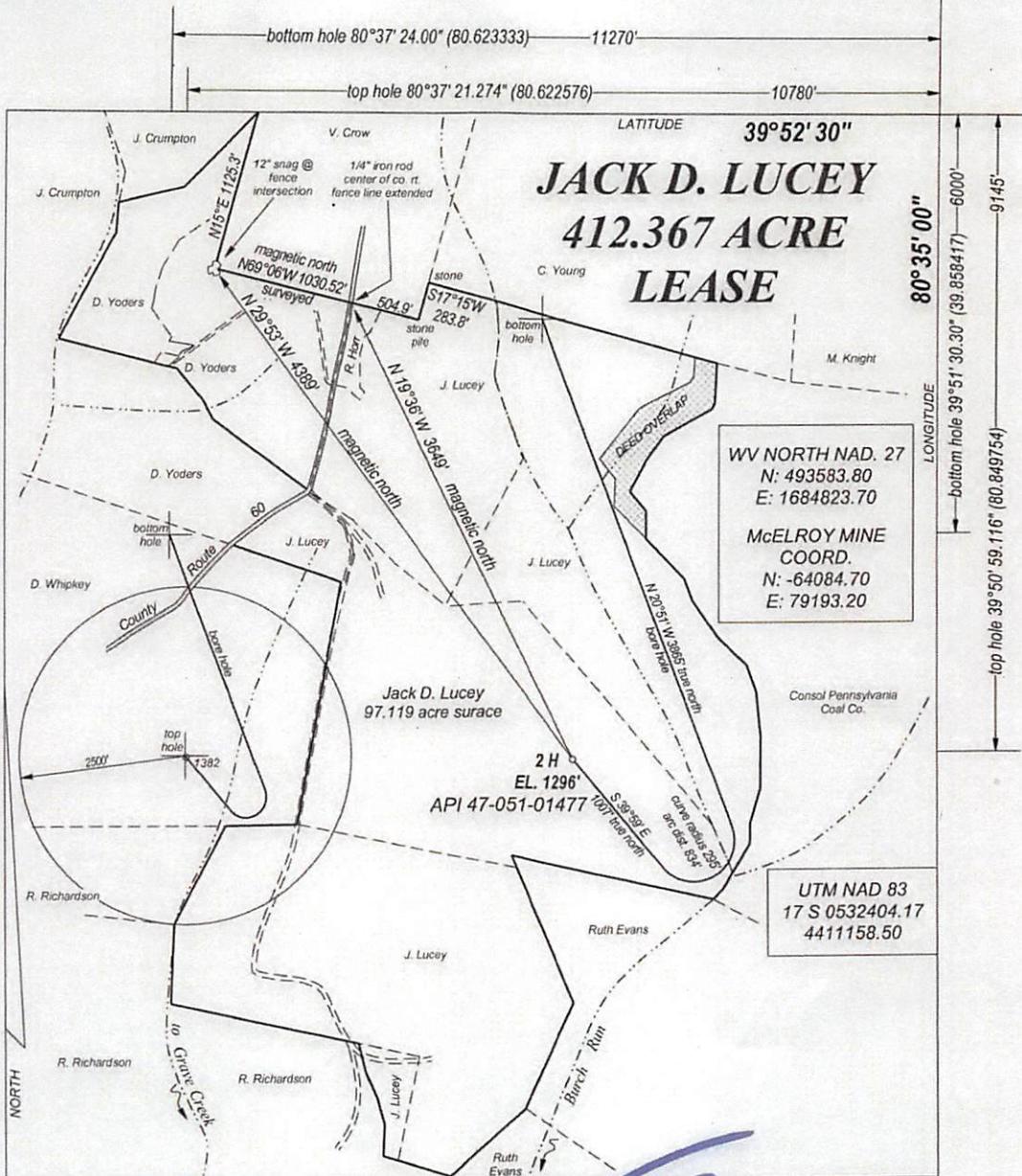
WV Department of Environmental Protection

JUN -6 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

TRANS ENERGY INC.

03/16/2018



WV NORTH NAD. 27
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 E: 1684823.70

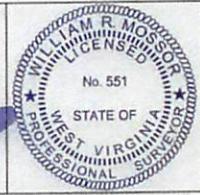
McELROY MINE
 COORD.
 N: -64084.70
 E: 79193.20

UTM NAD 83
 17 S 0532404.17
 4411158.50

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 PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) _____
 PROFESSIONAL SURVEYOR: 551



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

DATE FEBRUARY 22ND, 2016
 OPERATORS WELL NO. LUCEY 2H

API 47 - 051 - 01477
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1292' 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 6786'

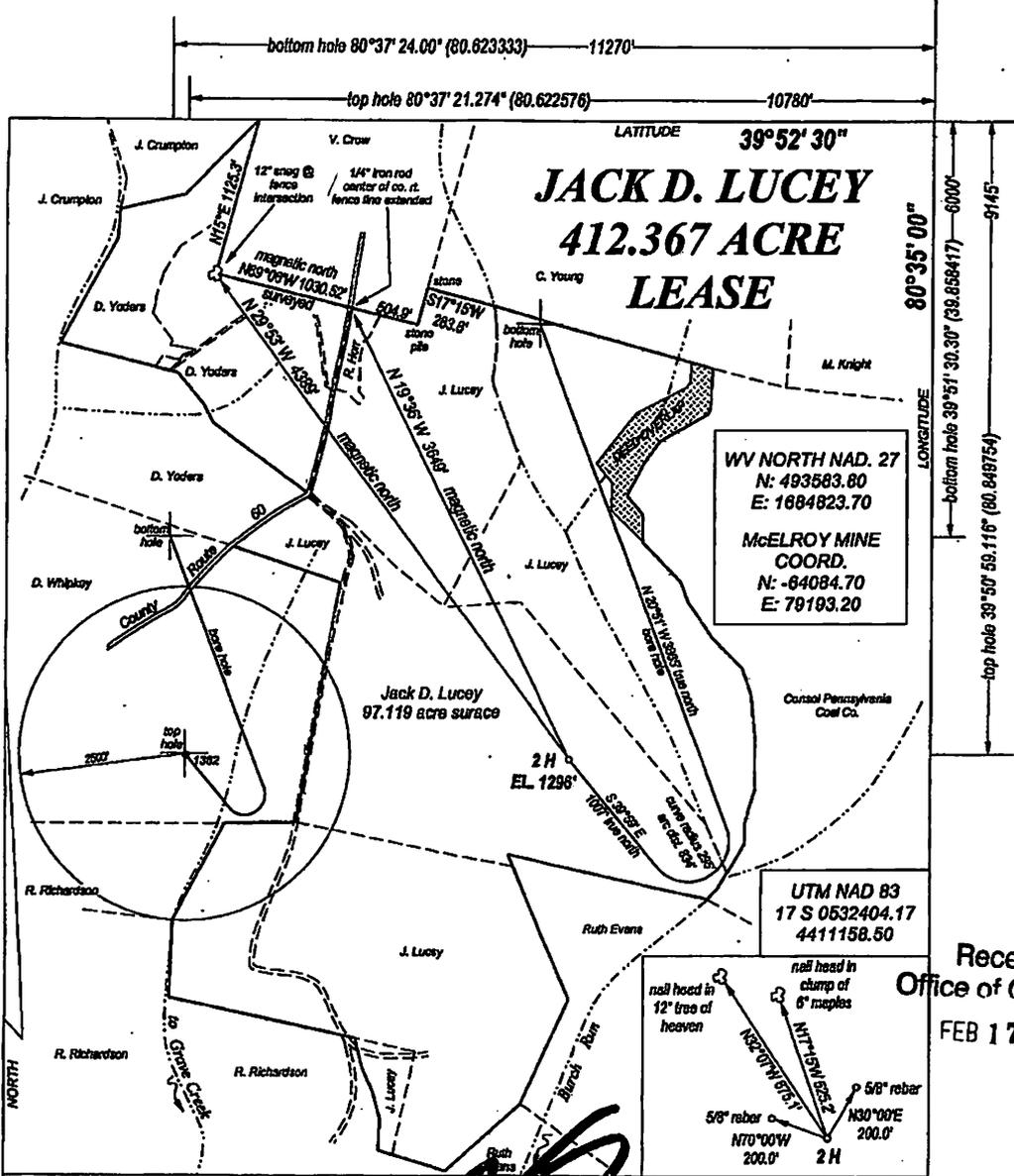
WELL OPERATOR TRANS ENERGY, INC. DESIGNATED AGENT LOREN BAGLEY
 ADDRESS P. O. BOX 393 ADDRESS P. O. BOX 393
ST. MARYS, WV 26170 ST. MARYS, WV 26170

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FORM WW - 6

COUNTY NAME
 PERMIT

03/16/2018



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Office of Oil & Gas
FEB 17 2016

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 CONTAINS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.
(SIGNATURE)
PROFESSIONAL SURVEYOR: 551



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

DATE JUNE 1ST, 2011
OPERATORS WELL NO. LUCEY 2H

API 47 - 051 - 1477W
STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1298' 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 7200'

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

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Environmental Protection

WR-85
Rev (8-20)

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

DATE: 11/05/12
Resubmitted of 4/17/12 report.
APH: 47-051-01477

Farm name: Lucy
LOCATION: Elevation: 1296
District: Cameron

Operator Well No.: 2H
Quadrangle: Cameron
County: Marshall

Latitude: 8.145° Feet South of 89 Deg. 52 Min. 30 Sec.
Longitude: 10.780 Feet West of 80 Deg. 55 Min. 00 Sec.

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

Agent: Loren Bagley
Inspector: Derek Haight
Date Permit Issued: 6/22/2011
Date Well Work Commenced: 8/20/2011
Date Well Work Completed: 10/25/2011
Verbal Plugging: N/A
Date Permission Granted On: N/A

| Casing Tubing Diameter | Used in Drilling | Left in Well | Cement Fill |
|------------------------|------------------|--------------|-------------|
| 26 | 80 | 80 | Surface |
| 16 | 1038 | 1038 | Surface |
| 13 3/8 | 1300 | 1300 | 500' |
| 9 5/8 | 3018 | 3018 | Surface |
| 5.5 | | 10,200 | Surface |
| | | | |
| | | | |

Drill Type: Rotary Cable Rig
Total Vertical Depth (ft.): 6,786
Total Measured Depth (ft.): 10,145
Is coal being mined in area (N/Y)? Y
Coal Depths (ft.): 376
Void(s) Encountered (N/Y)? N Depth:

OPEN FLOW DATA

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

GAS:
INITIAL OPEN FLOW: 4,400 MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: 3,550 psig (surface pressure) after

OIL:
INITIAL OPEN FLOW: 32.0 Bbl/d
FINAL OPEN FLOW: Bbl/d
HOURS
HOURS

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

GAS:
INITIAL OPEN FLOW: MCF/d
FINAL OPEN FLOW: MCF/d
TIME OF OPEN FLOW BETWEEN INITIAL AND FINAL TESTS:
Static Rock Pressure: psig (surface pressure) after

OIL:
INITIAL OPEN FLOW: Bbl/d
FINAL OPEN FLOW: Bbl/d
HOURS
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: [Signature]
Name (Printed): Bill Woodburn
Date: 11/5/12

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WV Department of
Environmental Protection

Received

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Office of Oil and Gas
WV Dept. of Environmental Protection

WW-4-A
Revised 6/07

- 1) Date: December 1, 2017
- 2) Operator's Well Number
518055 (Lucey 2H)
- 3) API Well No.: 47 051 - 01477
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>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> |
| <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> | |

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> |

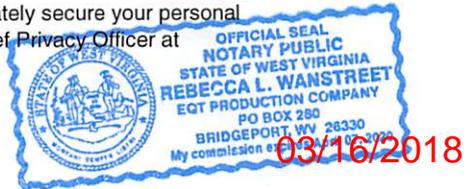
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JAN 23 2018

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

WV Department of Environmental Protection

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.



WW-9
Revised 5/16

Page 1 of 2
2) Operator's Well Number
518055 (Lucey 2H)
3) API Well No.: 47 051 - 01477

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 _____)
- WILL USE TANK TO CONTAIN WELL EFFLUENT, gpm*

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 LANDMAN-PERMITTING

Subscribed and sworn before me this 5th day of March, 2018

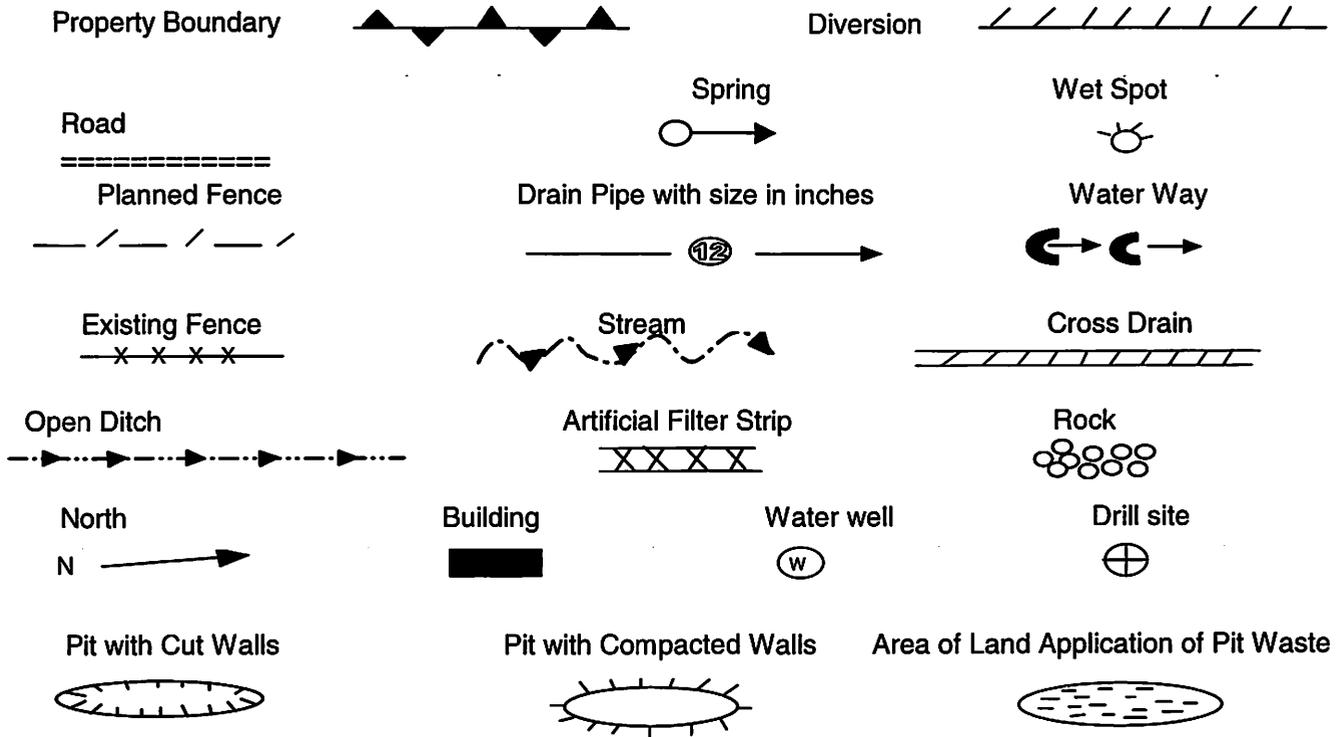


Rebecca L. Wangstreet Notary Public
4-7-2020

OPERATOR'S WELL NO. _____

03/16/2018

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

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Office of Oil and Gas

JAN 23 2018

WV Department of
Environmental Protection

5101477A

**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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WV Department of
Environmental Protection

03/16/2018



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Lucey #2H WV 518055 47-051-01477

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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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

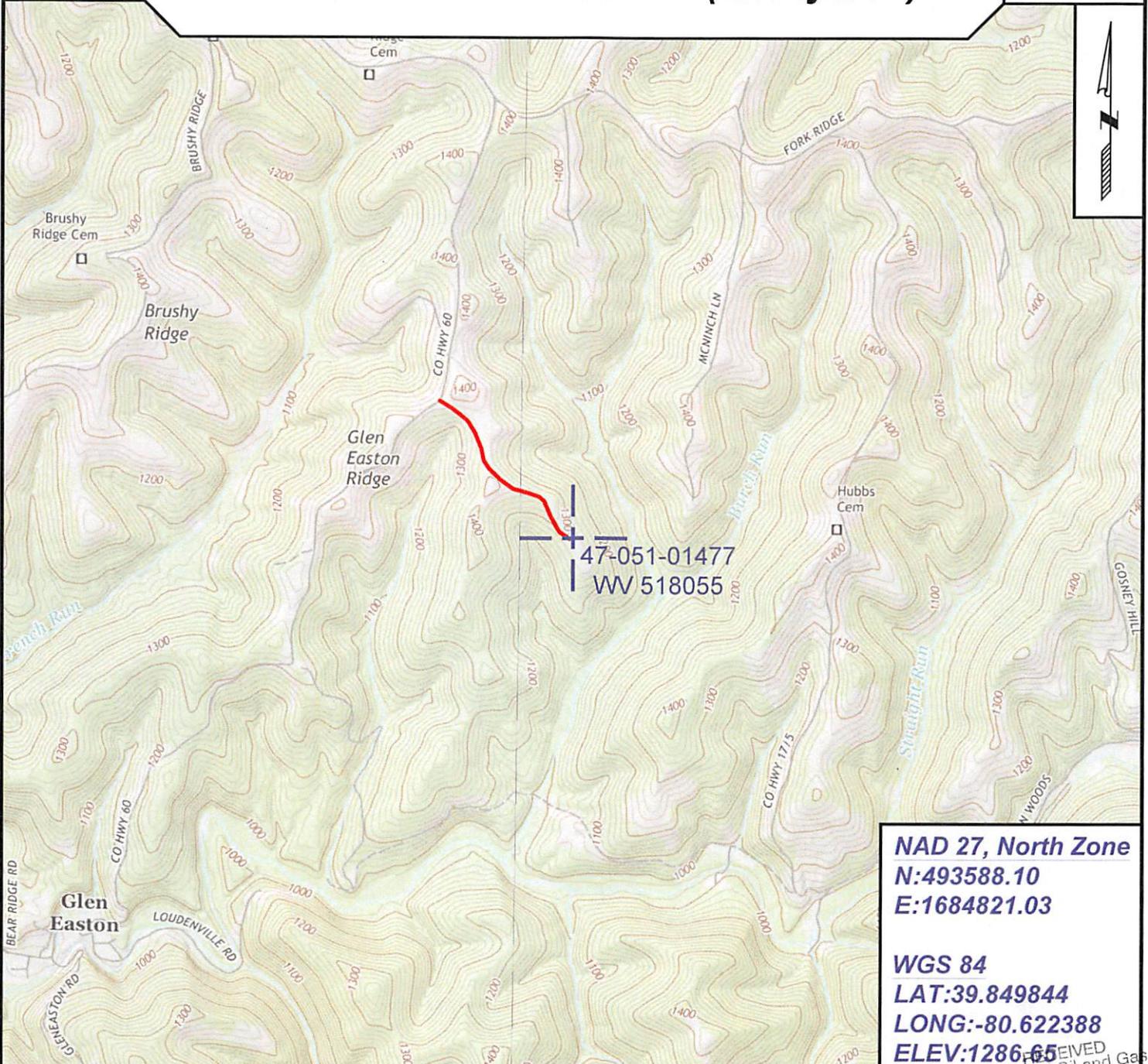
Topo Quad: Cameron 7.5" Scale: 1" = 2000'

County: Marshall Date: November 17, 2017

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

47-051-01477 WV 518055 (Lucey #2H)

Topo



NAD 27, North Zone
N:493588.10
E:1684821.03

WGS 84
LAT:39.849844
LONG:-80.622388
ELEV:1286.65



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

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03/16/2018

WW-7
8-30-06



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

API: 47-051-01477 WELL NO.: WV 518055 (Lucey #2H)

FARM NAME: Jack D. Lucey

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Marshall DISTRICT: Cameron

QUADRANGLE: Cameron 7.5'

SURFACE OWNER: Jack and Sharon Lucey

ROYALTY OWNER: Jack and Sharon Lucey

UTM GPS NORTHING: 4411160

UTM GPS EASTING: 532303 GPS ELEVATION: 392 m (1287 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

11/28/17
Date

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