

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

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

Date Issued:

Promoting a healthy environment.

I

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
- 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.

 518055 (Lucey 2H)

 API Well No.:
 47 051 - 01477

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

23321 \$10000

		OF OIL AND GAS	DIECTION		\$10
	APPLICATION FOR A PI	ERMIT TO PLUG AI	ND ABANDON		
4)	Well Type: Oil Gas X L	iquid Injection	Waste Dispo	sal	
	50 (State Color Co	round storage		Shallow	X
5)		: Burch Run		-	
•,	Location: Cameron County:	Marshall	_Quadrangle:	Cameror	1
6)	District: EQT Production Company	7) Docignator	d Agent: Jesen	Dancen	
U)	Well Operator 120 Professional Place	7) Designated Address:	120 Professiona	Ranson I Place	
	Address: Bridgeport, WV 26330	- -	Bridgeport, WV		
8)		9) Plugging C			
	Oil & Gas James Nicholson Name: PO Box 44		HydroCarbon Well : PO BOX 995	Service	
	Address: Moundsville WV 26041		Buckhannon, WV 2	26201	***************************************
	•				RECEIVED e of Oil and Gas
				FE	B 1 5 2018
					Department of mental Protection
	·				
	OFFI	CE USE ONLY			
	Notification must be given to the district oil and g	las inspector 24/hours	before permitted w	ork can comi	mence.

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 ½" hole size, TOC @ Surface if use 14 ¾" 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' Cl. A cement plug from 2,660' to 2,060'.
- 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' Cl. 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' Cl. A cement plug from 1,460' to 860'. TOOH with tubing and let cement cure.
- 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' Cl. A cement plug from 860' to 260'. TOOH with tubing and let cement cure.
- 12. TIH with tubing to 260', set 260' Cl. A cement plug from 260' to Surface. TOOH with tubing and let cement cure.
- Erect monument per WV DEP Specifications with API#, date plugged, company name, and company 6-digit ID#.

Office of Oil and Gas

JAN 2 3 2018

WV Department of Environmental Protection

EQT 5.5" Production Casing Well Lucey 2H Rig: UNK Pad : Lucey Prospect: Marcellus County : . Marshall State : WV Location : Lat: Long: BHL Lat: Long: **KB Elev** UNK KB : UNK GL Elev : UNK 26" Conductor - 80' TYPE FROM TO Drift = 19.25" Elec. Bridge 6775 60751 Coment 2890' 26601 990' 11901 cement 9761 776 1 coment 16" - 1038' Coment 7761 5761 19 1/2" - 1300" 13 3/8" - 1300' * coment plugs wigel soacers 19 1/2" - 1300" GEL Current State: The cement was drilled out to 1203' w/ 4 1/2" Tricone Bit and Cement Plug from 2,660' - 2,890' CMT pressure test well to 5,000 psi, pressure held. 9.625" - 3.018'12 1/4" - 3,018" **Tubular Detail** Size Weight Grade Cxn From To TOC Bbls Conductor GEL UNK UNK 26" .375w A-500 80 Weld 0' Surface Surf. 224 16" UNK UNK UNK 0' 1038 2nd Surface 13 3/8 UNK UNK 1300' 90 UNK 0' 167' Intermediate 9.625" 36# UNK STC 0' 3018' Surf. 334 Production 5.5" 20# P-110 RTC 40/40 10,145 Surf. 646 13 3/8" may be cemented to surface based on hole size RECEIVED Gas Cement Plug from 6,075' - 6,775' JAN 23 2018 KOP - 6,183' WV Department of Environmental Protection CIBP - 6,775 TD Landing Point 7,212' MD 11,268' MD 8 3/4" Version 1 - Option 1

Perforated Intervals, Fracturing or Stimuli			
Stage 1) 10,088 to 9,921 88 holes			
Stage 2) 9,882 to 9,706 41 holes			
Stage 3) 9,656 to 9,406 41 holes			
Stage 4) 9,446 to 9,276 41 holes			
Stage 5) 9,211 to 9,046 41 holes			
Stage 5) 8,995 to 8,836 41 holes			
Stago 7) 8,771 to 8,611 41 holes			
Stage 8) 8,551 to 8,581 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 7,941 26 holes			**************************************
	,		
	·		
		·	
FORMATION	ТОР	воттом	
FORMATION ENCOUNTERED	TOP DEPTH (FT.)	DEPTH (FT.)	NOTE
FORMATION ENCOUNTERED Surface Casing	DEPTH (FT.)	DEPTH (FT.) 8,018	NOTE 3,011
FORMATION ENCOUNTERED Surface Casing	DEPTH (FT.) Not legged.	DEPTH (FT.) 8,018 Not logged.	
FORMATION ENCOUNTERED Surface Casing Gordon Upper Devonian Shale	Not logged. Not logged.	DEPTH (FT.) 8,018 Not logged. 6,542	
FORMATION ENCOUNTERED Surface Casing Gordon Upper Devonian Shala	Not legged. Not legged. 5,532	DEPTH (FT.) 8,018 Not logged. 6,542 6,605	
FORMATION ENCOUNTERED Burface Casing Gordon Joper Devonian Shala Middlesex Burket Shale	Not legged. Not legged. 5,532 6,605	DEPTH (FT.) 8,018 Not logged. 6,542	
FORMATION ENCOUNTERED Surface Casing Gordon Upper Devonian Shale Middlesex Surfact Shale Adily Limestone	Not logged. Not logged. 6,532 6,605 6,552	DEPTH (FT.) 8,018 Not logged. 6,542 6,605	
FORMATION ENCOUNTERED Surface Casing Sordon Joper Devonian Shala Middlesex Surfact Shale Middlesex Surfact Shale Middlesex Surfact Shale Middlesex Surfact Shale	Not logged. Not logged. 6,532 6,605 6,552 6,680	DEPTH (FT.) 8,018 Not logged. 6,542 6,665 6,682	
FORMATION ENCOUNTERED Surface Casing Sordon Joper Devonian Shala Middlesex Surfact Shale Adity Limestone Joper Hamilton Group Asrcellus Shale	Not logged. Not logged. 6,832 6,608 6,552 6,680 6,779	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 5,632 6,680	
FORMATION ENCOUNTERED Surface Casing Sordon Joper Devonian Shala Middlesex Surfact Shale Adity Limestone Joper Hamilton Group Asrcellus Shale	Not logged. Not logged. 6,532 6,605 6,552 6,680	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 6,632 6,680 6,779	
FORMATION ENCOUNTERED Surface Casing Sordon Upper Devenian Shala Middlesex Surfact Shale Addy Limestone Upper Hamilton Group Marcellus Shale Chondaga Limestone	Not logged. Not logged. 6,832 6,608 6,552 6,680 6,779	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 6,632 6,680 6,779	
FORMATION ENCOUNTERED Surface Casing Sordon Upper Devonian Shale Middlesex Surfact Shale Adity Limestone Upper Hamilton Group Marcellus Shale	Not logged. Not logged. 6,832 6,608 6,552 6,680 6,779	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 6,632 6,680 6,779	
FORMATION ENCOUNTERED Formation Formation	Not logged. Not logged. 6,832 6,608 6,552 6,680 6,779	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 6,632 6,680 6,779	
FORMATION ENCOUNTERED Surface Casing Sordon Upper Devenian Shala Middlesex Surfact Shale Addy Limestone Upper Hamilton Group Marcellus Shale Chondaga Limestone	Not logged. Not logged. 6,832 6,608 6,552 6,680 6,779	DEPTH (FT.) 8,018 Not logged. 6,542 6,605 6,632 6,680 6,779	

Plugging Information:

Туре	From	То	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.

RECEIVED Office of Oil and Gas

JAN 2 3 2018

WV Department of Environmental Protection

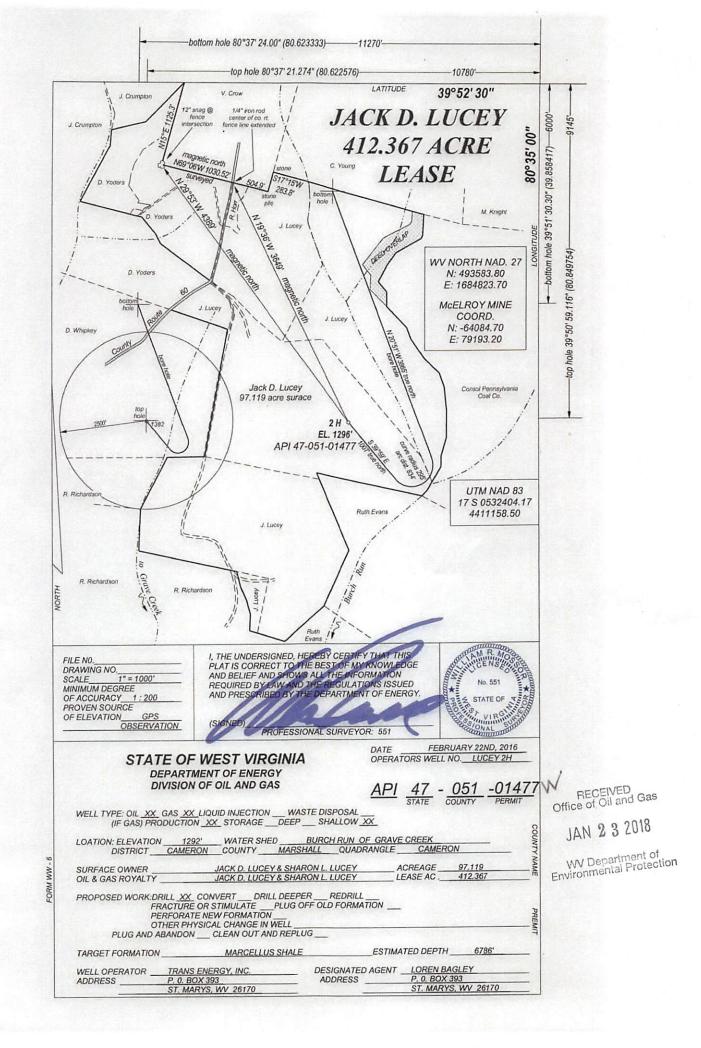
Drill Out Ops:

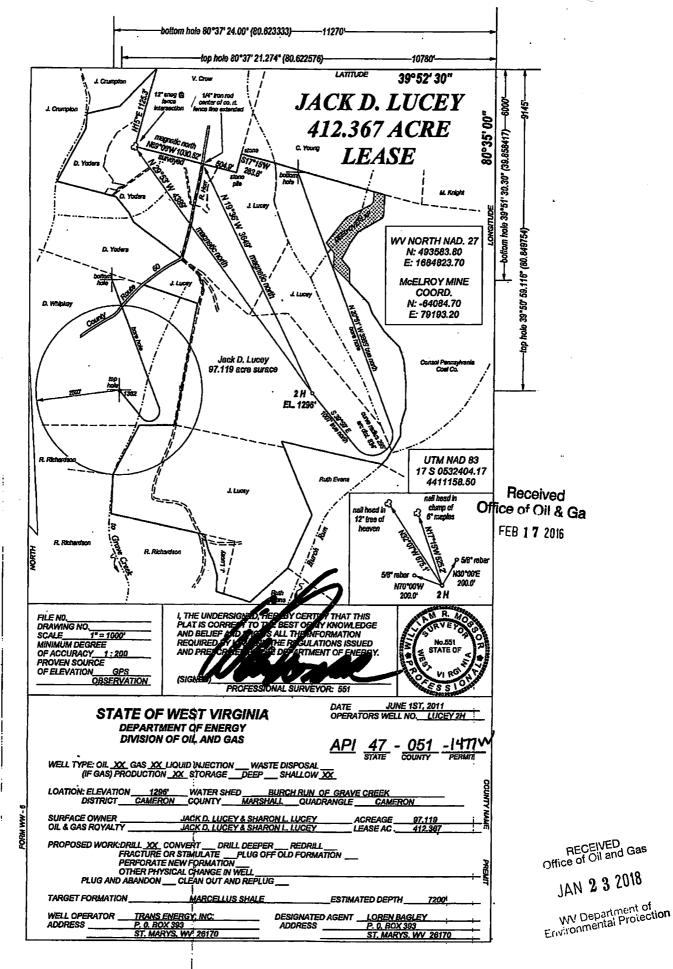
The cement was drilled out to 1203'. PSI tested casing to 5,000 psi and pressure held for 30 minutes. Shut down.

•								
WR-85	• ,		•			DATE:	1/05/12	,*
Rev (8-10)		State of West				Resubstitu	d4/17/12:ep	ort.
Ì	Departm	ent of Environ	mentel Protect	on			7-051-0147	
	,	Office of Cit	and Gas	1				-1 -
	/ Well O	perator's Repo	ort of Well Wor	k				
	. '			•				
	Lucey		Operator Well	No.:	2H		1	
LOCATION: Elevation: 12	196'		Quadrangle:		Cameron		1	
District: C	emeron		County:	1	Marshall			
				1	17140 517511			
Lattitude:!	9.145' Feet South of	89 Der	52 Min.	30 Sec	<u>.</u>			
	10.780 Feet West of			M_Sec.	-			
_ _	!			i			1	
	į		<u></u>	asing	1	T		1
			1 1	ubing	tiped in	1]
Company: TRANS FINERS			<u> 51</u>	ameter	Builting	Left in We	Cement Fill	}
Address: P.O. Box 393			L	26	80	80	Surface] .
St. Marys, W				16	1038	1038	Surface	1
Agent:	Loren Begley			33/8	1300	1300	500'	I
Inspector:	Derek Haught			95/B	3018	3018	Surface	
Date Permit Issued:	6/22/2011			5.5	1	10,200	Surface	
Date Well Work Commen								1
Date Well Work Complete	ed: 10/25/2011						•	
Verbal Plugging:	N/A							
Date Permission Granted	On: N/A			1				•
Drill Type: X Rot	zeryCable	Rig	•				i I	
Total Vertical Depth (ft.):	6,78	6		1				
Total Measured Depth (ft.): 10,1	45						
ts coal being mined in area	B (N/Y)?	Y						
Co	el Depths (ft.):	876	1	!				
1ST PRODUCING FORMATI	1011	OPEN FLO	حضنت الم					
	DN:	ARCELLIS		ZONE DI	PTH (FT.):	<u> </u>	6,779	
GAS: INITIAL OPEN FLOW:	4,400 MCF/d	1	OIL:	1014	66.5	-1.14.	<u></u>	
			INITIAL OPEN F	1	32.0	Bbi/d	4	
FINAL OPEN FLOW:	MCF/d		FINAL OPEN FL			861/년	<u>J</u>	
1 200	BETWEEN (NITIAL AND FIN		HOU					
Static Rock Pressure:	3,550 psig (surface pres	sure) anter	нои	RS	}			
				<u> </u>				
2ND PRODUCING FORMAT	NON:			ZONE DE	PTH (FT.):	<u> </u>	<u>i </u>	
GAS:			OF:	•				
INITIAL OPEN FLOW:	MCF/d		INITIAL OPEN F	7		Bbl/d	i	
FINAL OPEN FLOW:	MCF/d	<u>. </u>	FINAL OPEN FL			Bb1/d		
	BETWEEN INITIAL AND FIN		HOU					
Static Rock Pressure:	psig (surface pres	sure) after	HOU	RS			İ	
			•					RECEIVED Office of Oil and
certify under penaly of la	w that I have personally ex	commed and a	m familiar with	the Info	mation sub	mitted on	this docume	ant
and all the attachments en	ed that, based on my inqui	ry of those ind	Miduals immed	ately res	ponsible for	r obtaining	the inform	CONTAN 2 2 2
believe that the information	on is true, accurate and co	mplete.		•			AIVE	C OAN 2 3 Z
Compan	y Name: TRANS ENERGY,	NC /		I		က္ကလ	6,,	WV Departme
j	W-FI				,	40.		Environmental Pro
538	w that I have personally end that, based on my inquition is true, accurate and cony Name: TRANS ENERGY, pusture: pusture: pusture: 1	1000	<u> </u>	 			[_6 20 ⁷	l _{to} s
Name (Pi	mitted): "Bill Woodburn			!		<i>'UI</i> .	H	d Ges Protection
•	Date:/_/5/12_	<u> </u>		<u>:</u>		-	! ·	d Generalistics
1	• •	•		•		_	ACO OF CALL	OUTS! LAND
	_	I		1		9	" EWARDING	
RANS ENERGY INC.	•			İ	•	AM Deb	-	
İ		ł		1		-	1	
		<u> </u>					1	

SUPPLEMENTAL DATA

MEIT NAME: TITCEA SH			AP掛: <u>47-</u>	51-01477	
Were core samples taken? Yes No _3	K.	Were cut	ings caught during	drilling?	Yes_X_No
Were logs recorded on this well?	Y/N N		Electrical	i	
· · · · · · · · · · · · · · · · · · ·	.,		Mechanical		
			Geophysical		
			_ acobilished		
NOTE: IN THE AREA BELOW PUT THE FOL	LOWING:			1	
1.) DETAILS OF PERFORATED INTERVALS,	FRACTURI	NG OR STIN	HILATING BUVER	ai cuanc	er ree
2.) THE WELL LOG WHICH IS A SYSTEMAT	IC DETAIL	ED GEOLOG	ICAI BEMAN AST	ME TORDE	FE, EIL. NND DOTTOSES OF A
INCLUDING COAL ENCOUNTERED BY THE	WELLBOR	E FROM SUI	REACE TO TOTAL D	EDTH.	and but i qaab qra
Perforated Intervals, Fracturing or Stimula	ting:				
Stage 1) 10,088 to 9,921 38 holes				<u> </u>	•
Stage 2) 9,882 to 9,706 41 holes					
Stage 3) 9,656 to 9,406 41 holes					
Stage 4) 9,446 to 9,276 41 holes					
Stage 5) 9,211 to 9,046 41 holes					
Stage 5) 8,995 to 8,836 41 holes	!		· · · · · · · · · · · · · · · · · · ·		
Stage 7) 8,771 to 8,611 41 holes					
Stage 8) 8,551 to 8,381 41 holes	ŀ				
Stage 9) 8,311 to 8,121 41 holes					
Stage 10) 8,161 to 7,872 41 holes	1	•			
Stage 11) 7,818 to 7,572 41 holes					
Stage 12) 7,484 to 7,841 26 holes			***		
				-	
	•				
1				,	
FORMATION	π)P	ВОТТОМ		
ENCOUNTERED	DEPTI	1 (FT.)	DEPTH (FT.		NOTE
Surface Casing			3,018		9,01
Gordon	Not lo	gged.	Not logged		
Upper Devonlan Shale	Not lo		6,542		
Middlesex	6,5		6,605		
Burket Shale	6,6		6,652		
Pully Limestone	6,5		6,680		
Upper Hamilton Group -	5,6		6,779		
Marcellus Shale	6,7	79	6,830		
Onondaga Limestone	6,8				
				25	IVED, Gas
KOP 6,2051				KI (Oil and Ca
			-	Olling	NED Gas
				MAI	23
	1			-31	ament of one
				711	Deportal Pro
				EUN! OU	Department of action
		1			
					. 10
					<u> </u>
					·
ANS BNESSY CMC					**************************************





WR-85		ı	•		•			DATE	11/05/12	,
Rev (8-10)				State of W	est Virginia	1		_	d417/12:ep	
		}	Departm		ronmental Pr	ataction				
		1		1	Oil and Gas			ourns:	7-051-0147	4
		}	Well (eport of Weil	Mark			l	
						ARTIN				
Farm name)	Lucey			Onembor	Weil No.:	2H			1
LOCATION					•	1				
		ri: Cameron		1	Quedren	Bie:	Cameron			
	Osur	u: Cemeron			County:	ļ	Marshall			
	المستقدم ا	0.4469	Foot foutbal	25 Ban	55				†	
			Feet South of		52_ Min.	-				
	nonthing	211.77111 	_Feet West of	AN DES.	<u>35</u> Min.	00_Sec.	•		i I	
									<u>i</u>	•
				•		Cosing	Used in		11	
Company:	TRANS E	TERGY_INC.		1		Dismeter	Delling	Left to the	Coment Fill	
Address:	P.O. Box					26	80	80	Surface	1
	St. Mary	s, WV 2617	3			16	1038	1038	Surface	'
Agent:			Loren Begley	'		133/8	1300	1300		
Inspector:		ĺ	Derek Haught	1		95/B	3018		500'	
Date Permi	t issued:		6/22/2011			5.5	- SULO	3018	Surface	
Date Well V		menced:	8/20/2011			3.5		10,200	Surface	
Date Well V			10/25/2011							
Verbal Plug			N/A	ļ			<u> </u>			
Date Permi		ted On-	N/A		ı		L	<u> </u>	!	
Drill Type:		Rotery	Cable	. 191	_				l	
Total Vertic		-		R	g ·	1				
Total Measu	• •		6,7	1						
		erea (N/Y)?	10,1							
e costi nerifi	i umasa a		(0.)	Υ						
Naldal Carr		Coal Depti	• • —	876	<u>l</u>					
Vold(s) Enco	Minister (idals: M	Depth:	ı					i i	
					201112	1			l	
ier aboniu	THE PAR	44700			ATAD WOS	<u> </u>				
ist produc	אטר טאג	MAIIUN;	<u> </u>	ARCELLIS		PAY ZONE DE	PTH (FT.):	Ĺ	6,779	
<u>gas:</u>			20044	1	<u>Oil:</u>					
NITIAL OPE		4,40				en flow:	32.0	Bbl/d		
final open			MCF/d		FINAL OPE			Bbl/d		
			N INITIAL AND FI		~~~~	HOURS .				
Static Rock F	ressure:	3,550	psig (surface pre	ante) after	i	HOURS				
		<u> </u>							<u></u>	
ND PRODU	CING FOR	MATION:				PAY ZONE DE	PTH (FT.):			RECEIVED Gas
AS:		_		L	ÖlT	:				RECEIVED Gas
NITIALOPEI			MCF/d]	initial op	EN FLOW:		Bbl/d	0	ffice of U"
inal open		<u>L</u>	MCF/d	11.	FINAL OPE	N FLOW:		Bbl/d	1	1810S & 2 NAU
			N INITIAL AND FIR			HOURS				JAN BO
tatic Rock P	ressure:		psig (surface pre	sure) after		HOURS			1	Thepartment of
									_	WV Department of wv Department of environmental Protection
certify unde	er penaly	of law that I i	nave personally e	camined and	i am famillar v	with the infon	mation subr	nitted on t	his docume	nt
nd all the at	tachmen	s and that, b	ased on my inqui	ry of those i	ndividuals imi	mediately res	ponsible for	obtaining	the informs	on. I
elieve that 1	the inform	ration is true	, accurate and co	mplete.		1		Ī	Livie!	J.,
	Com	pany Name:	trans energy,	NC ,		ı	•	200	BIA.	
	i		be the	1_1				400		•
		Signature:	ased on my inqui, accurate and co TRANS ENERGY, Bill Woodburn	Ton-			,	-	6 201	Pa .
	Nam	e (Printed) :	Bill Woodburn]	-	į		1111	1	
		Date:	11/5/12					Jo		Gen Production
			• •	ı		,		i	and Off suc	And Property
	ì			ı				d	TEMPORTO	-
NIS ENERGY DU	.	•	•			1	•	AN Deb	, O. –	
	~							44-		
				1		1		i		

SUPPLEMENTAL DATA

WELL NAME: LUCEY 2H		API#:	47-051-01477	
Were core samples taken? Yes No	<u>x</u> .	Were cuttings caught du	ring drilling?	Yes_X_No
Were logs recorded on this well?	Y/N N	Electrical Mechanical Geophysical		
NOTE: IN THE AREA BELOW PUT THE F 1.) DETAILS OF PERFORATED INTERVAL 2.) THE WELL LOG WHICH IS A SYSTEM INCLUDING COAL ENCOUNTERED BY TO Perforated intervals, Fracturing or Stim	IS, FRACTURING IATIC DETAILED HE WELLBORE I	GEOLOGICAL RECORD	OF THE TOPS	GE, ETC. AND BOTTOMS OF A
renorated intervals, macturing or sum	ulaung:			
Stage 1) 10,088 to 9,921 38 holes				
Stage 2) 9,882 to 9,706 41 holes			-	
Stage 3) 9,656 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) 8,995 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			<u> </u>	
Stage 10) 8,161 to 7,872 41 holes				
Stage 11) 7,818 to 7,572 41 holes			Ti Ti	- 181
Stage 12) 7,484 to 7,341 26 holes				
				1872
l l				
			<u>i</u>	
FORMATION	ТОР			
ENCOUNTERED Surface Casing	DEPTH (NOTE
Gordon	Not logg	3,01		3,011
Upper Devonian Shale	Not logg			
Middlesex	6,532			
Burket Shale	6,605			
Tully Limestone	6,552			
Upper Hamilton Group	5,680	The same of the sa		
Marcellus Shale	6,779			1368
Onondaga Limestone	6,830			
	1,,,,,,			
KOP 6,2001	1			
	No.			
	-			

RECEII and

WV Department of Environmental Funds

TRANS ENERGY INC.

WW-4-A	
Revised 6/07	

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

1)	Surface Owner(s	s) to be served:	5) (a) Coal Operator:	
	(a) Name	Jack and Sharon	Name	
	Address	838 Glen Easton Rd	Address	
		Glen Easton WV 26039		
	(b) Name	Donald and Mary Yoder	(b) Coal Owner(s) with Declaration	-
	Address	309 Hoopin Hollar Ln.	Name Murray Energy Corp	
	Address	Glen Easton WV 26039	46226 National Road W	-
			Address St. Clairsville OH 43950	
	(c) Name		Name	
	Address	9 9	Address	-
3)	Inspector	James Nicholson	(c) Coal Lessee with Declaration	
1000	Address	PO Box 44	Name	
		Moundsville WV 26041	Address	
	Telephone	304-552-3874		

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:	EQT Production Company	
By:	Todd Klaner	BECEIVED
Its:	Regional Land Manager	Office of Oil and Gas
Address:	2400 Ansys Drive	
	Canonsburg PA 15317	<u>JAN</u> 2 3 2018
Telephone:	724-746-9023	
Subscribed and sworn before me this	day of January 2018 Notary Public	WV 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.

EBECCA L. WANSTREE
EQT PRODUCTION COMPANY
PO BOX 280
BRIDGEPORT, WV 26330
PRINCESON SERVES April 07, 202

WW-9 Revised 5/16

Page \ of 2	<u> </u>	
2) Operator's Wel	Number	
518055 (Lucey 2)	H)	
3) API Well No.:	47 051 - 01477	_ 7

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL & GAS

FLUIDS / CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name:	FOT PRODUCTION COMPANY	OR CODE:	206696
Operator Name.	EQT PRODUCTION COMPANY	OP CODE:	306686
Watershed (HUC 10):	Burch Run	Quadrangle:	Cameron
	nore than 5,000 bbls of water to complete	the proposed well work?	Yes No_X_
Will a pit be used? Yes		Formation Fluids	
Will a synthetic liner be us	The state of the s	Is so, what ml.?	
	od for Treated Pit Wastes:		O CONTAIN WELL EAT
Proposed Disposal Metric	Land Application (if selected provide	WILL USE TANK T	O COLUMN WORLD CAN
		t Number	3
x	Reuse (at API Number Various		
x		orm WW-9 for disposal location. See	attachment)
	Other: (Eyplain		ta
Will closed loop system b	e used ? If so, describe:		
Drilling medium anticipate	ed for this well? (vertical and horizontal)?	Air, freshwater, oil based, etc.	
If oil based, wh	nat type? Synthetic, petroleum, etc.		
Additives to be used in dri			
	hod? Leave in pit, landfill, remove offsite		
	lan to solidify what medium will be used? (ce	ment, Lime, sawdus <u>t)</u>	
Landfill or offsite	name/permit number?		
			
	en notice to the Office of the Oil and Gas of an		- A., .
where it was properly dispose	cility. The notice shall be provided within 24 h	ours of rejection and the permittee shall a	iiso disclose
where it was properly disposi	30.		
	nd and agree to the terms and conditions		
	e of Oil and Gas of the West Virginia Divi		
	on can lead to enforcement action.	erm or condition of the general permi	t and/or other
	tachments thereto and that, based on my	inquiry of those individuals immedia	tely responsible for
obtaining the information,	I believe that the information is true, accu	urate and complete. I am aware that	there are significant
penalties for submitting fa	lse information, including the possibility o	f fine or imprisonment.	
Company Official Sig	gnature Alexander	5/-	
Company Official (Ty	yped Name)	OHN ZAVATEHAN	
Company Official Tit	le LANDIMAN-PERMITT	IN6-	
Subscribed and sworn	before me this	day of March	. 2018
My Commission France	IAL SEAL SULLA COLYW	awstreet Notary Publi	С
A SOUTH WAS A WAS ICH SEERECCAL	WANSTREET TION COMPANY ON 280	ODE	PATODIS WELL NO .

518055 (Lucey 2H)

	LE	GEND		
Property Boundary		Diversion	////////	
		Spring	Wet Spot	
Road		\bigcirc		
	Planned Fence Drain Pipe with		Water Way	
//	<i></i>	- 12	€→€ →	
Existing Fence	Stream	am	Cross Drain	
Open Ditch	Artificia	l Filter Strip	Rock	
	···-· > ··-	XXX	%	
North	Building	Water well	Drill site	
N		w	\oplus	
Pit with Cut Walls	Pit with Com	pacted Walls Area of I	and Application of Pit Waste	
Quille S	ـــــــــ			
-	nent: Acres Disturbed: Tons/acre or to correct to p	1± Prevegetation OH 6.5	n pH	
me 3 ertilizer (10-20-20) or ed	Tons/acre or to correct to p		lbs/acre (500 lbs minimum	
me 3 ertilizer (10-20-20) or ed	Tons/acre or to correct to pullivalent Tons/acre or hydroseed.	0H <u>6.5</u> 1/3 ton		
me <u>3</u> ertilizer (10-20-20) or ed	Tons/acre or to correct to predict 0H <u>6.5</u> 1/3 ton			
me3 ertilizer (10-20-20) or ed luich2	Tons/acre or to correct to predict 0H <u>6.5</u> 1/3 ton	lbs/acre (500 lbs minimum)		
ertilizer (10-20-20) or edulch 2	Tons/acre or to correct to predict 0H	lbs/acre (500 lbs minimum) Area II		
ertilizer (10-20-20) or edulch 2 Are Seed Type ed Fescue sike Clover	Tons/acre or to correct to predict JRES Seed Type	lbs/acre (500 lbs minimum) Area II Ibs/acre		
me3 ertilizer (10-20-20) or edulch2 Are: Seed Type ed Fescue sike Clover	Tons/acre or to correct to predict JRES Seed Type Red Fescue	Ibs/acre (500 lbs minimum) Area II Ibs/acre		
ertilizer (10-20-20) or ed lulch 2 Are Seed Type ed Fescue sike Clover nnual Rye	Tons/acre or to correct to predict JRES Seed Type Red Fescue	Ibs/acre (500 lbs minimum) Area II Ibs/acre 15 5		
ertilizer (10-20-20) or edulch2 Area Seed Type ed Fescue Isike Clover Innual Rye TTACH: rawing(s) of road, location	Tons/acre or to correct to predict the prediction of the predictio	JRES Seed Type Red Fescue Alsike Clover	Area II Ibs/acre 15 5	
ertilizer (10-20-20) or ed lulch 2 Are: Seed Type ed Fescue Isike Clover Innual Rye TTACH: rawing(s) of road, location hotocopies section of involute in the section in the section of involute in the section in the section in the section of involute in the section in the	Tons/acre or to correct to predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict to predict the predict t	JRES Seed Type Red Fescue Alsike Clover oplication.	Ibs/acre (500 lbs minimum) Area II Ibs/acre 15 5 REC Office of 9 JAN 2	
ertilizer (10-20-20) or ed lulch 2 Are Seed Type ed Fescue Isike Clover nnual Rye TTACH: rawing(s) of road, location	Tons/acre or to correct to predict the prediction of the predictio	JRES Seed Type Red Fescue Alsike Clover oplication.	Area II Ibs/acre 15 5	
ertilizer (10-20-20) or ed lulch 2 Are Seed Type ed Fescue Isike Clover Innual Rye TTACH: rawing(s) of road, location hotocopies section of involan approved by:	Tons/acre or to correct to predict the prediction of the predictio	JRES Seed Type Red Fescue Alsike Clover oplication.	Ibs/acre (500 lbs minimum) Area II Ibs/acre 15 5 REC Office of 9 JAN 2	

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

RECEIVED
Office of Oil and Gas

JAN 2 3 2018

WV Department of Environmental Protection



POTENTIAL WATER SAMPLE DATA SHEET

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

RECEIVED Office of Oil and Gas

JAN 2 3 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

PO. 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, 2	017
District:	Cameron		Project No:	296-44-00-17	, <u>'</u>
Water	47-051-0	01477 WV 5	518055 (i	Lucey #2	Н)
	TIFE TO THE STREET THE	ton 8	Source within	FORK RIDGE	17000
endr Raul	100		051-01477 7 518055	100	COSNEY HILL
	1 Mary		1,400 \$		RECEIVED Office of Oil and Gar
		11951	5	CO HWY 1715	JAN 2 3 2018
Glen Easton	LOUDENINI (1000		18 100		NAD 27, North Zone N:493588.10 E:1684821.03
Series Ton Parent Paren			(40)	100	WGS 84 LAT:39.849844 LONG:-80.622388 ELEV:1286.65
LEGHA		PING SERVICES PERFORME		RED FOR:	
T CO	1.	Y SURVEYS, 800-482-8606 Birch River Road	INC. EC	P.O.	tion Company Box 280 ort, WV 26330

Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

Topo Quad:	Cameron 7.5"	Scale:	. 1" = 2000'	
County:	Marshall	Date:	November 17, 2	017
District:	Cameron	Project No:	296-44-00-17	
	47-051-01477 WV 5	518055 (i	Lucey #2	H) Topo
	rushy idge Glen Easton	GOT WOUNCH LY TO	FORK RIOCE Hubbs	1200
Ja Raine	1200	47-051-0147 WV 518055	10021	GOSNEY HILL
CO MAY 60		1.20	COHWITI'S 120	Sheuighte Rum 'moons's a soon
CE R	LOUDENMILE TO	.000	37	NAD 27, North Zone N:493588.10 E:1684821.03
GENERACIONAL DE LA CONTRACTIONAL DE LA CONTRAC		100	100	WGS 84 LAT:39.849844 LONG:-80.622388 ELEV:1286-65 EIVED Ga
EGHE NY	SURVEYING AND MAPPING SERVICES PERFORM ALLEGHENY SURVEYS, 1-800-482-8606			etion Company Box 280 W Department W Department

237 Birch River Road Birch River, WV 26610 PH: (304) 649-8606 FAX: (304) 649-8608

of ction Bridgeport, WV 26330 Environmental Pr

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: Post Processed Differential Real-Time Differential Real-Time Differential Received Gas 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 JAN 2 3 2018
belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas. We Department of We Department of Protection
Stay Okn 15#2180 11/28/17
Signature Title Date