



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

Harold D. Ward, Cabinet Secretary
www.dep.wv.gov

Monday, March 28, 2022
WELL WORK PERMIT
Vertical / Plugging

EQT PRODUCTION COMPANY
625 LIBERTY AVE., SUITE 1700
PITTSBURGH, PA 15222

Re: Permit approval for LEESON 510840
47-017-05629-00-00

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.

A handwritten signature in blue ink, appearing to read "James A. Martin".

James A. Martin
Chief

Operator's Well Number: LEESON 510840
Farm Name: RANDY E HUFF DESCENDAN
U.S. WELL NUMBER: 47-017-05629-00-00
Vertical Plugging
Date Issued: 3/28/2022

Promoting a healthy environment.

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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.

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WW-4B
Rev. 2/01

1) Date February 7, 2022
2) Operator's
Well No. 510840 Jackson Leeson
3) API Well No. 47-017 - 05629

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 856' Watershed South Fork Hughes River
District Southwest County Doddridge Quadrangle Oxford 7.5'

6) Well Operator EQT Production Company 7) Designated Agent Joseph C. Mallow
Address 400 Woodcliff Drive Address 115 Professional Place
Canonsburg PA 15317 Bridgeport WV 26330

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Sam Ward Name R&J
Address PO Box 2327 Address 1087 Raccoon Rd
Buckhannon, WV 26201 Hueysville, KY 41640

10) Work Order: The work order for the manner of plugging this well is as follows:
See Attachment for details and procedures.

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WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector S. P. Ward II Date 2/11/2022

PLUGGING PROGNOSIS

L-005687
 Leeson, Jackson
 API# 47-017-05629
 District, Weston
 Doddridge Co, WV

BY: M Danford
 DATE: 1/14/2022

CURRENT STATUS:

TD @ 6,332'
 Elevation @ 856'

16" 55# F-25 Casing @ 46' (CTS)
 11 3/4" 42# J-55 casing @ 671' (CTS 409.75 Cu. Ft.)
 8 5/8" 32# J-55 casing @ 1681' (532 Cu. Ft Cement) Likely CTS based on volume but not called out.
 5 1/2" 20# P-110 casing @ 6327' (181 bbls slurry) Estimated cement top 4,163'
 Tubing pulled 2021

$231.15 \text{ FT}^3 \cdot 5.77 \text{ FT}^3/\text{FT}^3$

Perforations 98 holes @ 6256-6292'
 15,425 bbl slickwater pumped
 466,000 lbs w/ 27% 100 m / 38% 40/70 / 35% 30/50

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$= 1333.7 \text{ FT}$
 $\therefore \text{TOC OF } 5\frac{1}{2}'' \text{ IS } \approx 5000'$

Fresh Water @ None Reported
 Elevation @ 856'
 Saltwater @ None Reported
 Gas Show @ None Reported
 Oil shows @ None reported
 Coal @ None Reported

Sam Ward 304-389-7583
 Samuel. D. Ward @wv.gov

1. Notify inspector, Bryan Harris, (304) 553-6087, Bryan.O.Harris@wv.gov, 24 hours prior to commencing operations.
2. Check annulus of all casing strings for any pressure, gas leaking, or bubbling water in cellar, etc. before starting plugging operations, if any gas is detected on any annuli, notify EQT supervisor before proceeding.
3. TIH with gauge ring to tag and ensure CIBP (set in 2021) still at depth Two plugs set above perfs of 6256' (top of perfs)
4. Fill hole with fresh water and run renegade segmented bond log from CIBP already in hole to surface. Locate and note cement top of production casing. (estimated to be at ~4163') or 5000'
5. TIH with tubing to CIBP fill hole with 6% gel to surface.
6. Set a 500' C1A cement plug from 6000' to 5500'. TOOH 300' with tubing. Reverse circulate full hole volume. TOOH 300' with tubing. Let cement cure for 8 hrs.
7. Free point 5 1/2" casing, cut casing @ free point using a jet cutter, Estimated Freepoint @ 4163' TOOH 5 1/2" casing.
8. Set a 200' C1A cement plug 100' in/out of casing cut. Est 4263' to 4063'. Adjust depths based on actual depth of cut. TOOH 300' with tubing. Reverse circulate full hole volume. TOOH 300' with tubing. Let cement cure for 8hrs. and tag top of cement. If cement top is at 4063' (or adjusted depth based on cut) or close proceed on to step 12.
9. Pump 6% GEL from top of cement to surface. TOOH to 1831' set a 300' C1A cement plug 1831' to 1531'. TOOH 300' with tubing. Reverse circulate full hole volume. TOOH with tubing. Let cement cure 8 hrs. (9 5/8" casing seat).
10. Check TD. If top of cement is at 1531' or close. TOOH with tubing.
11. TIH with wireline to 1531' if successful set CIBP @ 1480' TOOH with wireline

S.D.W
 2/11/2022

4701705629P

12. TIH with tubing to 900' set a ^{400'}100' CIA cement plug 900' to 500'. TOOH with tubing. Let cement cure 8 hrs. (Elevation @ 856', 11 3/4" seat).
13. TIH with tubing to check TD. If top of cement is at 500' or close TOOH with tubing to 200' set a 200' CIA cement plug 200' to surface. (Fresh Water @100' and Surface Plug)
14. Erect monument with API#, date plugged, company name.
15. Reclaim location and road to WV-DEP specifications.

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4701705629P

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

API# 4701705629

with 34

Farm Name Randy E. Huff Decendants Well Number 510840
Location Elevation 856 Quadrangle OXFORD
District Southwest County Doddridge, WV
Latitude 6800 FSL Degree Minute Second
Longitude 0920 FWL 80.00 47.00 30.00

Company EQT Production Company
1710 Pennsylvania Avenue Charleston,
WV 25328
Agent Cecil Ray
Inspector Mike Underwood
Permit Issued 04/09/2008
Well Work Commenced 06/10/2008
Well Work Completed 08/04/2008
Verbal Plugging
Permission granted on _____
Rotary Rig Cable Rig _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft
16	46	46	
11 3/4	671	671	409.75
8 5/8	1,681	1,681	532.37
5.5	6,327	6,327	231.15

Total Depth 6,332 MD

Water Encountered

Type From

Coal & Open Mines

Type From

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Open Flow Data

Producing Formation
Marcellus

Pay Zone Depth (ft): See attached for details

Gas: Initial Open Flow 0 MCF 09/05/2008 Date
Final Open Flow 0 MCF 09/05/2008 Date
Oil: Initial Open Flow _____ Bbl/d
Final Open Flow _____
Time of open flow between initial and final tests 0 hours
Static Rock Pressure 2,030 after 0 hours

Second Producing Formation _____

Pay Zone Depth (ft) _____

Gas: Initial Open Flow _____ MCF _____ Date
Final Open Flow _____ MCF _____ Date
Oil: Initial Open Flow _____ Bbl/d
Final Open Flow _____
Time of open flow between initial and final tests _____ hours
Static Rock Pressure _____ after _____ hours

NOTE: On back of this form put the following

- 1) Details of Perforated intervals, fracturing or stimulating, physical change, etc.
- 2) The well log, a systematic detailed geological record of all formations including coal encountered in the well bore

By: Ron [Signature]
Date: 4/6/09

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S Dew
2/11/2022

Well Number 510840

EQT Company
WR-35 Completion Report - Attachment
Well Treatment Summary

API# 4701705629

Stage 1	
Date	07/15/2008
Frac Type	Slickwater
Zone	Marcellus
# of Perfs	98
From/To	6.256- 6.292
BD Press	0
ATP Psi	4.747
Avg Rate	89
Max Press Psi	9.028
ISIP Psi	6.767
10min SIP	0 5 min.
Frac Gradient	0.00
Sand Proppant	4,658.00
Water-bbl	15425
SCFN2	0
Acid-gal	0 gal

Formation Name	Depth To	Depth Bottom	Formation Thick
Sand and Shale	0.00	1,130	1,130.00
ROSEDALE GAS SAN	1,130.00	1,262	132.00
ROSEDALE SALT SA	1,262.00	1,574	312.00
BIG LIME	1,574.00	1,686	112.00
BIG INJUN	1,686.00	1,717	31.00
WEIR	1,851.00	1,970	119.00
GANTZ	2,062.00	2,145	83.00
GORDON	2,284.00	2,385	101.00
FIFTH SAND	2,536.00	2,564	28.00
WARREN	2,898.00	2,961	63.00
SPEECHLEY	2,961.00	3,468	507.00
BALLTOWN	3,468.00	3,837	369.00
RILEY	4,081.00	4,500	419.00
BENSON	4,500.00	4,544	44.00
ALEXANDER	4,750.00	4,846	96.00
GENESEE	6,064.00	6,172	108.00
GENESEO	6,172.00	6,215	43.00
TULLY	6,215.00	6,245	30.00
MARCELLUS	6,245.00	6,306	61.00
ONONDAGA	6,306.00	0	0.00

Gas Tests

Depth	Remarks
1,720	No Show
6,332	No Show

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Select County: (017) Doddridge (Check All)

Enter Permit #: 05629

Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Btm Hole Loc

[Table Descriptions](#)
[County Code Translations](#)
[Permit-Numbering Series](#)
[Usage Notes](#)
[Contact Information](#)
[Disclaimer](#)
[WVGES Main](#)
["Pipeline-Plus" New](#)

WV Geological & Economic Survey:

Well: County = 17 Permit = 05629

Report Time: Friday, March 25, 2022 9:14:56 AM

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LON_DD	UTME	UTMN
4701705629	Doddridge	5629	Southwest	Oxford	Holbrook	39.148045	-80.794659	517743.7	4333225.6

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PRC
4701705629	8/4/2008	Original Loc	Completed	Randy E Huff Descendents Trust et al		WV 510840	J Leeson	109481	Adele McDougal et al	Equitable Production Company	

Completion Information:

API	CMP_DT	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTG
4701705629	8/4/2008	6/10/2008	856	Ground Level	St Fk-Blstn Ck	Onondaga Ls	Marcellus Fm	Development Well	Development Well	Gas	Rotary	Fractured	6332		6332

Comment: 8/4/2008 Says no FOF but production numbers are high.

Pay/Show/Water Information:

API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_QNTY
4701705629	8/4/2008	Pay	Gas	Vertical	6256	Marcellus Fm	6292	Marcellus Fm					

Production Gas Information: (Volumes in Mcf)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4701705629	EQT Production Company	2008	21,477	0	0	0	0	0	0	0	12,821	0	2,044	3,746	2,866
4701705629	EQT Production Company	2009	23,702	1,253	2,346	3,206	1,623	2,062	1,940	1,731	1,826	1,907	1,923	1,745	2,140
4701705629	EQT Production Company	2010	16,009	2,125	1,541	1,663	1,669	1,595	891	820	1,132	1,006	1,014	1,315	1,238
4701705629	EQT Production Company	2011	7,073	750	1,110	1,056	487	438	380	312	84	59	137	1,399	861
4701705629	EQT Production Company	2012	10,031	915	1,149	1,073	1,092	1,143	770	460	744	692	728	643	622
4701705629	EQT Production Company	2013	6,036	568	478	591	388	399	542	542	556	504	489	490	489
4701705629	EQT Production Company	2014	4,033	456	433	439	451	299	411	414	232	275	150	172	301
4701705629	EQT Production Company	2015	4,408	117	107	331	519	476	454	424	329	345	463	422	421
4701705629	EQT Production Company	2016	1,187	382	316	433	56	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2017	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2018	1,496	0	1	0	145	1,317	33	0	0	0	0	0	0
4701705629	EQT Production Company	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Oil Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4701705629	EQT Production Company	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2009	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2010	76	18	0	25	0	0	0	0	6	0	27	0	0
4701705629	EQT Production Company	2011	48	48	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2012	95	0	31	0	0	23	41	0	0	0	0	0	0
4701705629	EQT Production Company	2013	263	14	0	0	0	22	0	0	17	46	0	0	164
4701705629	EQT Production Company	2014	161	0	0	0	0	12	0	0	0	0	149	0	0

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4701705629	EQT Production Company	2015	106	0	0	0	0	0	65	0	0	0	13	0	28
4701705629	EQT Production Company	2016	31			13	18								
4701705629	EQT Production Company	2017	0	0											
4701705629	EQT Production Company	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production NGL Information: (Volumes in Bbl) ** some operators may have reported NGL under Oil

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_NGL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4701705629	EQT Production Company	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2016	0												
4701705629	EQT Production Company	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Production Water Information: (Volumes in Gallons)

API	PRODUCING_OPERATOR	PRD_YEAR	ANN_WTR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4701705629	EQT Production Company	2016	0												
4701705629	EQT Production Company	2018	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2019	0	0	0	0	0	0	0	0	0	0	0	0	0
4701705629	EQT Production Company	2020	0	0	0	0	0	0	0	0	0	0	0	0	0

Stratigraphy Information:

API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4701705629	Original Loc	Rosedale Gas Sand	Well Record	1130	Reasonable	132	Reasonable	856	Ground Level
4701705629	Original Loc	Rosedale Salt Sand	Well Record	1262	Reasonable	312	Reasonable	856	Ground Level
4701705629	Original Loc	Greenbrier Group	WVGES Staff Geologist	1574	Reasonable	143	Reasonable	856	Ground Level
4701705629	Original Loc	Big Lime	Well Record	1574	Reasonable	112	Reasonable	856	Ground Level
4701705629	Original Loc	Big Injun (Grnbr)	Well Record	1686	Reasonable	31	Reasonable	856	Ground Level
4701705629	Original Loc	Weir	Well Record	1851	Reasonable	119	Reasonable	856	Ground Level
4701705629	Original Loc	Gantz	Well Record	2062	Reasonable	83	Reasonable	856	Ground Level
4701705629	Original Loc	Gordon	Well Record	2284	Reasonable	101	Reasonable	856	Ground Level
4701705629	Original Loc	Fifth	Well Record	2536	Reasonable	28	Reasonable	856	Ground Level
4701705629	Original Loc	Warren	Well Record	2898	Reasonable	63	Reasonable	856	Ground Level
4701705629	Original Loc	Speechley	Well Record	2961	Reasonable	507	Reasonable	856	Ground Level
4701705629	Original Loc	Balltown	Well Record	3468	Reasonable	369	Reasonable	856	Ground Level
4701705629	Original Loc	Riley	Well Record	4081	Reasonable	419	Reasonable	856	Ground Level
4701705629	Original Loc	Benson	Well Record	4500	Reasonable	44	Reasonable	856	Ground Level
4701705629	Original Loc	Alexander	Well Record	4750	Reasonable	96	Reasonable	856	Ground Level
4701705629	Original Loc	Genesee Fm	Well Record	6064	Reasonable	108	Reasonable	856	Ground Level
4701705629	Original Loc	Genesee Sh Mbr	Well Record	6172	Reasonable	43	Reasonable	856	Ground Level
4701705629	Original Loc	Tully Ls	Well Record	6215	Reasonable	30	Reasonable	856	Ground Level
4701705629	Original Loc	Marcellus Fm	Well Record	6245	Reasonable	61	Reasonable	856	Ground Level
4701705629	Original Loc	Onondaga Ls	Well Record	6306	Reasonable			856	Ground Level

Wireline (E-Log) Information:

API	LOG_TOP	LOG_BOT	DEEPEST_FML	LOGS_AVAIL	SCAN	DIGITIZED	GR_TOP	GR_BOT	D_TOP	D_BOT	N_TOP	N_BOT	I_TOP	I_BOT	T_TOP	T_BOT	S_TOP	S_BOT	O
4701705629	0	6344		G,D,N,T,C,*	Y	N	0	6344	1677	6338	1677	6324			1677	6290			

Comment: *logs:caliper, tension, pe, audio

Downloadable Log Images: We advise you to save the log image file to your PC for viewing. To do so, right-click the .tif image of interest and select the save option. Then you can direct the file to a location of your choice. Please note these images vary in size and some may take several minutes to download, especially if using a 56k or slower dialup connection.

Quick Reference Guide for Log File Names For more info about WVGES scanned logs click [here](#)
geologic log types:

4701705629

FILENAME
4701705629cdegnto.tif

d density (includes bulk density, compensated density, density, density porosity, grain density, matrix density, etc.)
e photoelectric adsorption (PE or Pe, etc.)
g gamma ray
i induction (includes dual induction, medium induction, deep induction, etc.)
l laterolog
m dipmeter
n neutron (includes neutron porosity, sidewall neutron—SWN, etc.)
o other¹
s sonic or velocity
t temperature (includes borehole temperature, BHT, differential temperature, etc.)
z spontaneous potential or potential
mechanical log types:
b cement bond
c caliper
o other¹
p perforation depth control or perforate

¹other logs may include, but are not limited to, such curves as audio, bit size, CCL—casing collar locator, continuous meter, directional survey, gas detector, guard, NCTL—Nuclear Cement Top Locator, radioactive tracer, tension

There is no Plugging data for this well

There is no Sample data for this well

4701705629P

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WW-4A
Revised 6-07

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Office of Oil and Gas

FEB 16 2022

WV Department of
Environmental Protection

1) Date: February 7, 2022
2) Operator's Well Number
510840 Jackson Leeson
3) API Well No: 47 - 017 - 05629

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name See Attached	Name
Address	Address
(b) Name	(b) Coal Owner(s) with Declaration
Address	Name See Attached
(c) Name	Address
Address	Name
	Address
6) Inspector Sam Ward	(c) Coal Lessee with Declaration
Address PO Box 2327	Name
Buckhannon, WV 26201	Address
Telephone 304-389-7583	

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 Department 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

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
 Beaver County
 My commission expires March 9, 2024
 Commission number 1267706
 Member, Pennsylvania Association of Notaries

Well Operator EQT Production Company
 By: Erin Spine
 Its: Manager - Subsurface Permitting
 Address 400 Woodcliff Drive
 Canonsburg PA 15317
 Telephone (724) 271-7380

Subscribed and sworn before me this 7th day of February 2022
Rebecca Shrum Notary Public
 My Commission Expires March 9, 2024

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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.

4701705629P

510840 Jackson Leeson Well (OXF 43) WW-4A Attachment

SURFACE OWNERS:

William Lee Huff Care of Joyce E. Huff
826 Orange Ave. #205
Coronado, CA 92118

The Randy E. Huff Decedents Trust B, Trustee Joyce E. Huff
826 Orange Ave. #205
Coronado, CA 92118

COAL OWNERS:

William Lee Huff
1108 West County Road 130
Midland, TX 79706

"The Adele S. McDougal Revocable Living Trust
Trustee, Mary Beth McDougal
213 West High Street
Harrisville, WV 26362

Master Mineral Holdings II, LP
P.O. Box 10886
Midland, TX 79706

Katherine Foster Leggett
1625 Stonehenge Road
Charleston, WV 25314

Anita Kathryn Greer
3034 Governor Lindsey Road
Santa Fe, NM 87505

Suzanne Carol McKain Kingsley
158 Swanswick Lane, P.O. Box 280
Springfield Center, NY 13468

Mark Alan McKain
131 41st Avenue North # 23
St. Petersburg, FL 33703

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WV Department of
Environmental Protection

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CARE OF JOYCE E. HUFF
826 ORANGE AVE. #205
CORONADO, CA 92118**

Street and Apt. No.
City, State, ZIP+4®

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**RANDY E. HUFF DECENDENTS TRUST B
TRUSTEE JOYCE E. HUFF
826 ORANGE AVE. #205
CORONADO, CA 92118**

Street and Apt. No.
City, State, ZIP+4®

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Sent To
**WILLIAM LEE HUFF
1108 WEST COUNTY ROAD 130
MIDLAND, TX 79706**

Street and Apt. No.
City, State, ZIP+4®

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Return Receipt (electronic) \$ _____

Certified Mail Restricted Delivery \$ _____

Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ 2.16

Total Postage and F
\$ 8.96

Sent To
**ADELE S. MCDUGAL REVOCABLE
LIVING TRUST
TRUSTEE, MARY BETH MCDUGAL
213 WEST HIGH STREET
HARRISVILLE, WV 26362**

Street and Apt. No.
City, State, ZIP+4®

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Adult Signature Required \$ _____

Adult Signature Restricted Delivery \$ _____

Postage
\$ 2.16

Total Postage and F
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Sent To
**MASTER MINERAL HOLDINGS II, LP
P.O. BOX 10886
MIDLAND, TX 79706**

Street and Apt. No.
City, State, ZIP+4®

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Adult Signature Restricted Delivery \$ _____

Postage
\$ 2.16

Total Postage and F
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Sent To
**KATHERINE FOSTER LEGGETT
1625 STONEHENGE ROAD
CHARLESTON, WV 25314**

Street and Apt. No.
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.16
Total Postage and F	\$ 8.96

Sent To
ANITA KATHRYN GREER
3034 GOVERNOR LINDSEY ROAD
SANTA FE, NM 87505

City, State, ZIP+4®
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
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Sent To
SUZANNE CAROL MCKAIN KINGSLEY
158 SWANSWICK LANE, P.O. BOX 280
SPRINGFIELD CENTER, NY 13468

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<input checked="" type="checkbox"/> Return Receipt (hardcopy)	\$ 3.05
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$ 2.16
Total Postage and F	\$ 8.96

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MARK ALAN MCKAIN
131 41ST AVENUE NORTH # 23
ST. PETERSBURG, FL 33703

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SURFACE OWNER WAIVER

Operator's Well
Number

510840 Jackson Leeson

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

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Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

**FOR EXECUTION BY A NATURAL PERSON
ETC.**

**FOR EXECUTION BY A CORPORATION,
ETC.**

	Date		Name	
Signature			By	
			Its	
				Date
			Signature	Date

WW-4B

4701705629P

API No.	47-017-05629
Farm Name	J. Leeson
Well No.	510840 Jackson Leeson

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____ / owner ____ / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

By: _____

Its _____

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WW-9
(5/16)

API Number 47 - 017 05629
Operator's Well No. 519840 Jackson Leeson

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

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) South Fork Hughes River Quadrangle Oxford 7 5

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

Will a pit be used? Yes No

If so, please describe anticipated pit waste: [Redacted]

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-CPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

SDW
2/11/2022

Will closed loop system be used? If so, describe: ULTIMATELY ANY WELL EFFLUENT MUST BE PROPERLY
DISPOSED OF OFF-SITE IN A PROPER MANNER.

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____
-If oil based, what type? Synthetic, petroleum, etc. _____

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Additives to be used in drilling medium? _____

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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. _____

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-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 Oil and Gas of any load of drill cuttings or associated waste rejected at any 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 Department 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.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Ern Spine

Company Official Title Manager - Subsurface Permitting

Subscribed and sworn before me this 7th day of February, 2022

[Signature]

Notary Public

My commission expires March 9, 2024

Commonwealth of Pennsylvania - Notary Seal
Rebecca Shrum, Notary Public
Beaver County
My commission expires March 9, 2024
Commission number 1267706
Member, Pennsylvania Association of Notaries

4701705629 P

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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Operator's Well No. 510840 Jackson Leeson

Proposed Revegetation Treatment: Acres Disturbed 1± Prevegetation pH _____

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer type (10-20-20) or equivalent

Fertilizer amount 1/3 ton lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Red Fescue	40	Red Fescue	15
Aslike Clover	5	Aslike Clover	5
Annual Rye	15		

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: S. D. Whitte

Comments: _____

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Environmental Protection

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Title: OOG Inspector Date: 2/11/2022

Field Reviewed? () Yes (X) No

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Site Pictures
Jackson Leeson
WV 510840 47-017-05629



WV 510840 Well Pad Site



WV 510840 Well

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SDW
2/11/2022

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

CHARLESTON OFFICE
301 RHE Boulevard - Suite 5
Charleston, WV 25309
phone 304-756-2949 fax 304-756-2948



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

API: 47-017-05629 WELL NO.: WV 510840 (Jackson Leeson)

FARM NAME: J. Leeson

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Doddridge DISTRICT: Southwest

QUADRANGLE: Oxford 7.5'

SURFACE OWNER: Randy E. Huff Descendants Trust, et al.

ROYALTY OWNER: Adele McDougal, et al.

UTM GPS NORTHING: 4333233

UTM GPS EASTING: 517732 GPS ELEVATION: 261 m (856 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.

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WV Department of
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Ben R. Stahl
Signature

P.S. 2092
Title

1-3-2022
Date

4701705629P

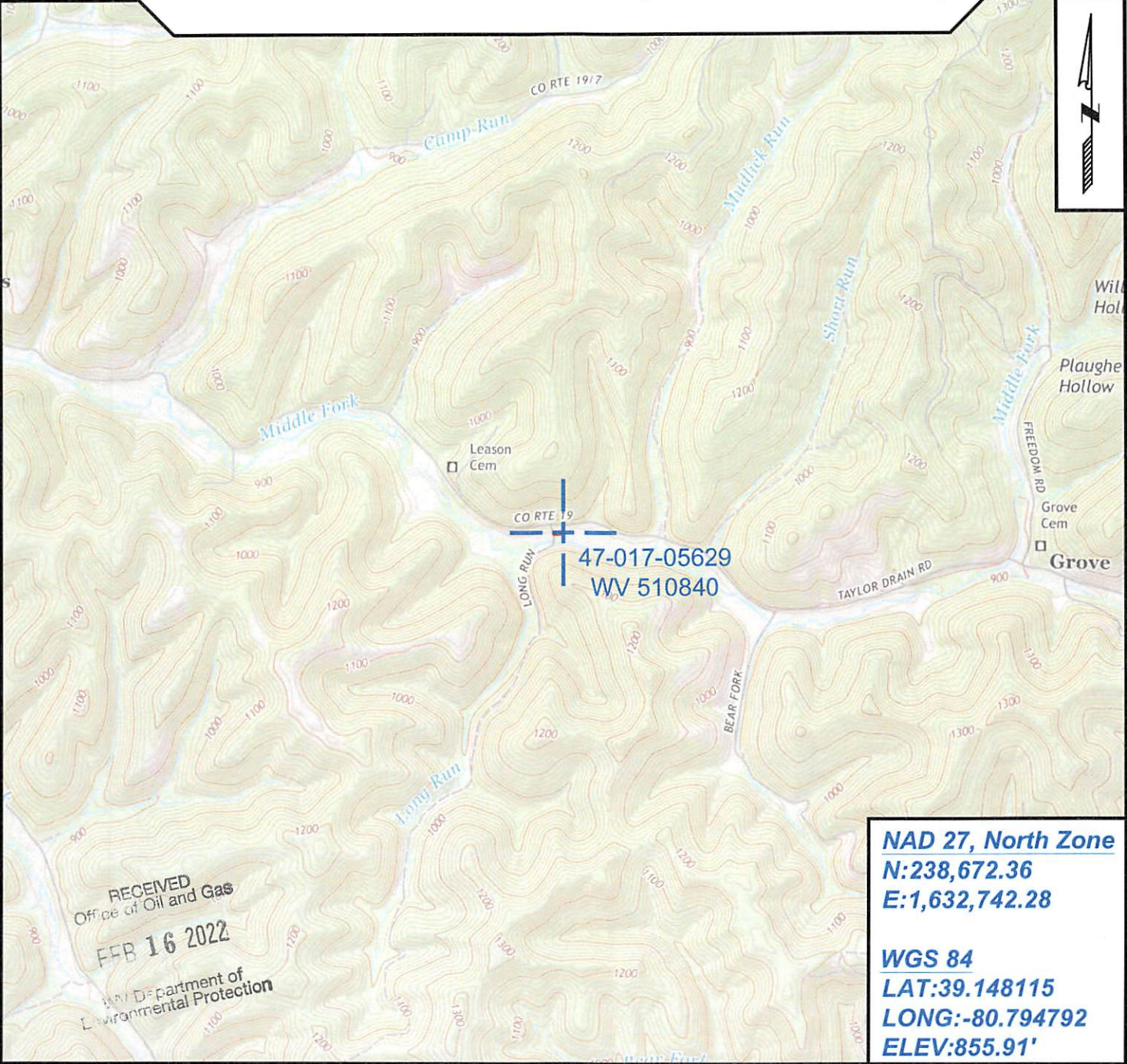
Topo Quad: Oxford 7.5' Scale: 1" = 2000'

County: Doddridge Date: January 03, 2022

District: Southwest Project No: 67-30-00-08

47-017-05629 WV 510840 (Jackson Leeson)

Topo



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NAD 27, North Zone
N:238,672.36
E:1,632,742.28
WGS 84
LAT:39.148115
LONG:-80.794792
ELEV:855.91'



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
 400 Woodcliff Drive
 Canonsburg, PA 15317

J. LEESON LEASE 2,000 ACRES± TOTAL WELL NO. WV 510840

WELL NO. WV 510840
STATE PLANE COORDINATES
(NORTH ZONE)

N. 238,673
E. 1,632,744

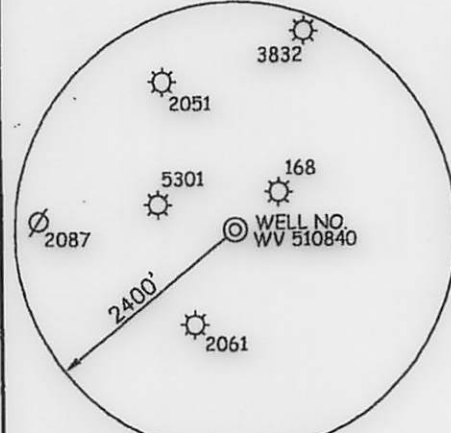
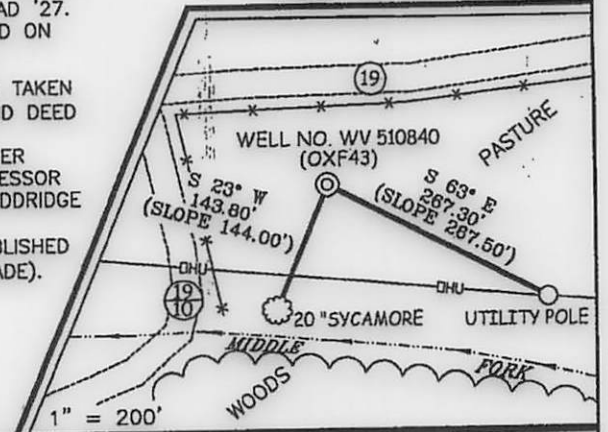
LAT=(N) 39.148030
LONG=(W) 80.794961



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. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 02/08/08.
3. TRACT BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 221 PAGE 242 AND DEED BOOK 170 PAGE 130.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF DODDRIDGE COUNTY IN JULY, 2007.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



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. 849

Gregory A. Smith



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE FEBRUARY 21, 20 08
 OPERATORS WELL NO. WV 510840
 API WELL NO. 47 - 017 - 05629
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200
 FILE NO. 6113P510840 (249-71)
 SCALE 1" = 1,000'
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE)

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 856' WATERSHED MIDDLE FORK DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

SURFACE OWNER RANDY E. HUFF DESCENDANTS TRUST ET AL ACREAGE 473.4± ROYALTY OWNER ADELE McDUGAL ET AL LEASE ACREAGE 2,000± LEASE NO. 109481

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 BIG LIME WELLS, GORDON, WARREN, ALEXANDER, MARCELLUS PHYSICAL CHANGE IN WELL (SPECIFY) TARGET FORMATION: ESTIMATED DEPTH 6400'

WELL OPERATOR: EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT: L. TODD TETRICK
 ADDRESS: 1710 PENNSYLVANIA AVENUE ADDRESS: 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

COUNTY NAME PERMIT

4701705629 P



400 Woodcliff Dr | Canonsburg, PA 15317
www.eqt.com

Via Email

February 14, 2022

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: Jeff McLaughlin
601 57th Street, SE
Charleston, WV 25304

**RE: Application for a Permit to Plug & Abandon
 510840 Jackson Leeson
 API 47-017-05629
 Southwest District, Doddridge County, WV**

WVDEP Recipient,

Attached is EQT Production Company's application for a permit to plug and abandon for the well referenced above.

EQT Production trusts that if any portion of the submitted documentation is found to be inadequate for processing the permit, notification will be made to our land department at your earliest convenience. It is EQT Production's intent to cooperate fully to provide any additional requested documentation and clarification in a timely manner such that permitting proceeds in a predictable and logical manner.

Sincerely,

Becky Shrum
Project Specialist – Permitting
bshrum@eqt.com
724-271-7314

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Stansberry, Wade A <wade.a.stansberry@wv.gov>

Plugging Vertical Well Work Permit API: 47-017-05629)

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Mar 28, 2022 at 9:43 AM

To: John <JZavatchan@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Todd <tklaner@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, Erin Spine <espine@eqt.com>, David Sponaugle <dsponaug@assessor.state.wv.us>, "Ward, Samuel D" <samuel.d.ward@wv.gov>

I have attached a copy of the newly issued well [permit](#) number. This will serve as your copy.


47-017-05629 - J510840 JACKSON LEESON

If you have any questions, then [please](#) contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

2 attachments

 **47-017-05629 - Copy.pdf**
4933K

 **IR-8 Blank.pdf**
228K



Stansberry, Wade A <wade.a.stansberry@wv.gov>

Re: Plugging Vertical Well Work Permit API: 47-017-05629) CORRECTION

1 message

Stansberry, Wade A <wade.a.stansberry@wv.gov>

Mon, Mar 28, 2022 at 9:45 AM

To: John <JZavatchan@eqt.com>, "Shrum, Becky" <bshrum@eqt.com>, Todd <tklaner@eqt.com>, Olivia Pishioneri <opishioneri@eqt.com>, Erin Spine <espine@eqt.com>, David Sponaugle <dsponaug@assessor.state.wv.us>, "Ward, Samuel D" <samuel.d.ward@wv.gov>

CHIEFS SIGNATURE was missing from last attachment.

On Mon, Mar 28, 2022 at 9:43 AM Stansberry, Wade A <wade.a.stansberry@wv.gov> wrote:

I have attached a copy of the newly issued well permit number. This will serve as your copy.

47-017-05629 - J510840 JACKSON LEESON

If you have any questions, then please contact us here at the Office of Oil and Gas.

Thank you,

Wade A. Stansberry
Environmental Resource Specialist 3
West Virginia Department of Environmental Protection
Office of Oil & Gas
601 57th St. SE
Charleston, WV 25304
(304) 926-0499 ext. 41115
(304) 926-0452 fax
Wade.A.Stansberry@wv.gov

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