

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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Thursday, October 3, 2019 WELL WORK PLUGGING PERMIT Vertical Plugging

ENERVEST OPERATING, L.L.C., A LIMITED LIABILITY COMPANY 1001 FANNIN STREET SUITE 800 HOUSTON, TX 77002

Re:

Permit approval for MAXWELL 1-E-937

47-033-03907-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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.

James A. Martin

Chief

Operator's Well Number: MAXWELL 1-E-937

Farm Name: OLIVERIO, SALVADORE A.

U.S. WELL NUMBER: 47-033-03907-00-00

Date Issued: 10/3/2019

Vertical Plugging

Promoting a healthy environment.



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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.
- 4. This well is under a consent order and must be plugged under the terms of that agreement.

WW-4B Rev. 2/01

1) Date August 1,	2019
2) Operator's	
Well No. E-937 L.C. Maxwell	#1
3) APT Well No. 47-033	- 03907

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

	APPLICATION FOR A PERM	MIT TO PLUG AND ABANDON
4)	Well Type: Oil/ Gas $\frac{X}{X}$ / Liquid (If "Gas, Production $\frac{X}{X}$ or Und	d injection/ Waste disposal/ derground storage) Deep/ Shallow X
5)	Location: Elevation 1169' District Sardis	Watershed Katy Lick Run County Harrison Quadrangle Wolf Summit
6)	Well Operator Address Address EnerVest Operating, L.L.C. 300 Capitol Street, Suite 200 Charleston, WV 25301	7) Designated Agent Barry K. Lay Address Same
8)	Oil and Gas Inspector to be notified Name Sam Ward Address P.O. Box 2327 Buckhannon, WV 26201	9)Plugging Contractor Name_TBD Address
10)	Work Order: The work order for the man	ner of plugging this well is as follows:
		RECEIVED Office of Oil and Gas AUG 15 2019 WV Department of Environmental Protection
wor]	can commence.	il and gas inspector 24 hours before permitted
Worl	order approved by inspector	Oubisity Date 8/8/2019

Maxwell #1-E-937 API# 47-033-03907 Elevation: 1169' KB – 10' KB Latitude: 39.320271

Latitude: 39.320271 Longitude: -80.427867

Maxwell #1-E-937 Well Data

Casing:

8-5/8" 20 ppf Surface Csg @ 900' KB – Cemented to Surface

4-1/2" 10.5 ppf Production Csg @ 4635' KB – Est. TOC Estimate 2936'

TD:

4718'

Latch Down:

?' – Records show a LD but no indication of footage

Perforations:

3392'-3424' KB, 4522'-4533' KB

Coal:

140'-144', and 858'-862'

Fresh Water:

404', 1146', and 1292'

Salt Water:

None known

Maxwell #1-E-937 Procedure:

- 1. Notify State Inspector, Sam Ward (304)-389-7583 <u>Samuel.D.Ward@wv.gov</u>, 24 hours prior to commencing operations.
- 2. Prep Mawell #1-E-937 location.
- 3. MIRU service rig, steel pits, work string of 5000' 2-3/8" EUE tbg, and other ancillary equipment.
- 4. Perform csg Freepoint test on 4-1/2". Compare to estimated TOC.
- 5. RIH w/ 2-3/8" work string to bottom, approx. 4710'.
- 6. PU 10' off bottom.
- 7. Use rig tank and pump or MIRU cement crew and circulate hole with 6% gel.
- 8. TOOH to 4513' and set 150' cement plug F/ 4513' T/ 4363' (perfs @ 4522'-4533'). woc, TAC PLUC , ADD
- 9. TOOH to 4333' and circulate hole with 6% gel. ADD GEL IF NERDED
- 10. TOOH to 3404' and set 150' cement plug F/ 3404' T/ 3254' (perfs @ 3392'-3424'). wo C, TAC PLUC, ADD CENEUR.
- 11. TOOH to 3224' and circulate hole with 6% gel. ADD GCC IF NEEDED.
- 12. TOOH w/ 2-3/8" tbg.
- 13. RIH with 4-1/2" csg ripper and rip csg at Freepoint.
- 14. Once ripped, PU 3', break circulation and thru 4-1/2" csg set 150' cement plug 75' in/out of cut.
- 15. TOOH w/ 4-1/2" csg 30' about previous cement plug and circulate hole with 6% gel.

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- 16. TOOH w/ 4-1/2" csg.
- 17. MIRU perforaters and perforate all Oil, Coal, FW, and Gas shows below 8-5/8" csg. FW @AUG 15 2019 1146' and 1292'.
- 18. TIH w/ 2-3/8" work string to 1342' (50' below FW @ 1292') and set 275' cement plug F/WV Department of 1342' T/ 1067'.
- 19. TOOH with 2-3/8" work string to 975' and set 150' cement plug F/ 975' T/ 825'. (75' in/out of 8-5/8" shoe).
- 20. TOOH to 795' and circulate hole with 6% gel.
- 21. TOOH w/ 2-3/8" work string to 200' and set 200' cement plug F/ 200' T/ Surface (Surface Plug).
- 22. Erect a monument to WV DEP specifications (CSR 35-4-5.5 sub "b").

3/8/2019



ENERVEST OPERATING, LLC

WELLBORE SCHEMATIC

Well Informa	ation:					11			
Well Name:		Maxwell 1-E-93	37	(A)		Partnership:	Harvest W	/V	
County/State:		Harrison/WV				API Number:	47-033-03	3907	
Township:						AFE Number:			
Target:						Cost Center:	47137500)1	
Lat:		39.320271				Pool Code	101		
Long:		-80.427867				Logger's TD:	4718'		
				SPUD DATE:	10/26/1992				
Surveys	Hole Size	Formations	Depths (KB)	TD DATE:	11/1/1992	Casings	Cement Sho	ws	
				Elevation	on: 1169'	Primary: ??	surf. csg @900' KB (TOC= s	surface)	
		Big Lime 1465' Big Injun 1526'				KB = 10'			
		Fifth 2475'							
-		Speechley 3050							
	(c	Balltown 3392' Perfs: 3392'-33				1		Office of	CEIVED
	-	Perfs: 3392 -33 Perfs: 3408'-34				1		Onice	f Oil and Gas
		Perfs: 3422'-34						AUG	1 5 2019
								- ITVII OI II I I E	partment of ntal Protection
		Benson 4526'					sks 50/50 w/ 2% gel, 10% s	alt	
	•	Perfs: 4522'-45				4-1/2" J-55 10	0.5 ppf prod. csg @ 4635' k	(B (Est. TOC = 2936')	
	7 7/8" hole		4718'						
Completion	Information	n	Target:	Dev	onian		Completion Date:	11/9/1992	
Top Perforation	on (ft):	3392'	Frac	: Type/Fluid:	А	ir	Breakdown:	psi	
Bottom Perfo	ration (ft):	4533'	Fc	oam Quality:			Pre-ISIP:	psi	
No. of Shots:		24		cid Volume:		gal.	MTP:	psi	
Charge (gram	ı):		Treatmo	ent Volume:		gal.	ATP:	psi	
Perf Diameter	r:	.39 in.	San	nd mesh size		mesh	ISIP:	psi	
Penetration:			S	and Volume		sacks	5-min SIP	psi	
Phasing:			Ave. Treatm	ient Rate:		bpm	10-min SIP	psi	

Perfs: Balltown (3392'-3424'), and Benson (4522'-4533'). Coal @ 140'-144', 858'-862'. FW @ 404', 1146', and 1292'.

20-Oct-92 API # 47- 33-03907

State of West Virginia Division of Environmental Protection Section of Oil and Gas

Well Operator's Report of Well Work

Farm name:	OLIVERIO, SALVADORE A.	Operator	Well No.:	MAXWELL#1	-E-937
LOCATION:	Elevation: 1169.00 Quad	rangle: W	OLF SUMMIT		
	District: SARDIS	C	ounty: HARR	ISON	
	Latitude: 4780 Feet Sou Longitude 3060 Feet Wes	th of 39	Deg. 20Min	. 0 Sec.	
	Longitude 3060 Feet Wes	t of 80	Deg. 25 Mi	n. 0 Sec	•
Company: EMA	X OIL COMPANY				
	O. BOX 112	Casing	Used in	Left	Cement
SAL	EM, WV 26426-0112		i .	j	Fill Up
3h - 7011	N M IINCPTNC	Tubing	Drilling	in Well	Cu. Ft.
Agent: JOH	N T. HASKINS	Size	 	 	!
Inspector:	TIM BENNETT				i i
Permit Issu	ed: 10/20/92	12. 24	į .	129	to surface
Well work C	ommenced: <u>10/26/92</u>	11 3/4		. 129	
Well work C	ompleted: 11/1/92	Ì	1 .		1
Verbal Plug		8 5/8	1	900	to surface
	granted on:				
Rotary x	Cable Rig		·		[]
Total Depth	(feet) 4718 depths (ft) 404	4 1/2) 	4635	300 sks
			 	 I	1
Salt water	1146, 1292 depths (ft) 0		! }		
			, . 	, 	
Is coal bei	ng mined in area (Y/N)?	İ	1	1	l İ
Coal Depths	(ft): 140-144, 858-862		1 .		
OPEN FLOW D	እጥአ				
Produc	ing formation Benson, Ballton nitial open flow n/t MCF	wn.	Pay zone (depth (ft	3392-4533
Gas: I	nitial open flow n/t MCF	/d Oil: I	nitial open	flown/	a Bbl/d
F	inal open flow 428 MCF ime of open flow between i	/d F	inal open f	Low n/	a bbila
T T	ime of open flow between i	nitial and	d final tes	ts n/	a Hours
Static	rock Pressure 1250 psi	g (surrac	e pressure)	arter 12	Hours
Second	producing formation		Pay zone	depth (ft)
Gas: I	nitial open flow MCF	/d Oil: I	nitial open	flow	Bbl/d
F	inal open flow MCF	/d F	inal open f	low	Bbl/d
T	ime of open flow between i	nitial and	d final tes	ts	Hours
Static	rock Pressurepsi	g (surrac	e pressure;	arcer	Hours
	CK OF THIS FORM PUT THE				
	FRACTURING OR STIMULATING				
LOG WHICH	IS A SYSTEMATIC DETAILED	GEOLOGIC	AL RECORD	OR WITE EO	HATIONS,
INCLUDING C	OAL ENCOUNTERED BY THE WEL	LBORE.		Office of Oil	and trae
				AUG 1	5 2019
	For: EMAX OI	L COMPANY			
		7/1	111	WV Depar Environment	rtment of al Protection
	By:	10/1//	Mohn	Environment	μι · · · · · · ·

Benson perforated from 4522-4533 with 12 holes. Water fraced with 55,000# sand in 513 bbl water.

Balltown perforated from 3392-3398 with 6 holes and 3408-3412 with 4 holes, 3422-3424 with 2 hole Water fraced with 40,000# sand in 424 bbl water.

9	Sand & Shale		0		140	
	Coal		140	1	144	
	Sand & shale		144	1	858	
	Coal		858		862	
	Sand & Shale		862		1465	
	Big Lime		1465		1526	
	Big Injun	*	1526		1634	
	Sand & Shale		1634		2475	
	Fifth Sand		2475		2496	
	Sand & Shale		2496		3050	
	Speechley		3050	3	3188	
	Sand & Shale		3188		3392	
	Balltown		3392	•	3424	
	Sand & Shale		3424		4526	
	Benson		4526		4534	
	Sand & Shale		4534		4718	TD
	Danie - Dii					

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Select County: (033) Harrison Select datatypes: (Check All) ☑ Production ☑ Plugging Location Enter Permit #: 03907 Sample Owner/Completion Stratigraphy Get Data Reset ☑ Logs Pay/Show/Water Btm Hole L Table Descriptions
County Code Translations
Permit-Numbering Series
Usage Notes Contact Information
Disclaimer
WVGES Main
"Pipeline-Plus" New

WV Geological & Economic Survey:

Well: County = 33 Permit = 03907

Report Time: Thursday, February 14, 2019 10:43:20 AM

 Location Information:
 View Map

 [AP]
 COUNTY
 PERMIT TAX_DISTRICT
 QUAD_75
 QUAD_15
 LAY_DD
 LON_DD
 UTME
 UTMN

 4703303907
 Harrison
 3907
 Sardis
 Wolf Summit
 Clarksburg
 39.32037
 -80.427682
 549333.9
 4352485.5

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 PROP_VD PROP_TRGT_FM TFM_EST_PR
4703303907 11/1/1992 Original Loc Completed Mary/Russell Richards 1 E-937 L C Maxwell EMAX, Inc.

Completion Information:

API CMP_DT SPUD_DT ELEV DATUM FIELD DEEPEST_FM DEEPEST
4703303907 11/1/1992 10/26/1992 1169 GroundLevel Brwn-Lumberport Greenland Gap Fm Benson DEEPEST_FMT INITIAL_CLASS FINAL_CLASS TYPE RIG CMP_MTH Benson Development Well Development Well Gas Rotary Fractured

Pay/500w/	vvater ini	ormation.												
API	CMP_DT	ACTIVITY	PRODUCT	SECTION	DEPTH_TOP	FM_TOP	DEPTH_BOT	FM_BOT	G_BEF	G_AFT	O_BEF	O_AFT	WATER_Q	NTY
4703303907	11/1/1992	Water	Fresh Water	Vertical			404							0
4703303907	11/1/1992	Water	Fresh Water	Vertical			1146							0
4703303907	11/1/1992	Water	Fresh Water	Vertical			1292							0
4703303907	11/1/1992	Pay	Gas	Vertical	3392	Balltown	3398	Balltown	0	0				
4703303907	11/1/1992	Pay	Gas	Vertical	3408	Balltown	3412	Balltown	0	0				
4703303907	11/1/1992	Pay	Gas	Vertical	3422	Balltown	3424	Balltown	0	0				
4702202007	11/1/1002	Day	Coc	Vertical	4522	Reneon	4533	Reneon	0					

Production Gas Information: (Volumes in Mcf) * 2018 data are incomplete at this time

		Gas illioittation. (Voidi														
1	API	PRODUCING_OPERATOR	PRD_YEAR	ANN_GAS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
	4703303907	EMAX, Inc.	1993	2,261								709	1,552			
	4703303907	Cabot Oil & Gas Corp.	1993	13,371	0	0	0	0	0	0	0	2,229	2,251	2,831	3,026	3,034
	4703303907	Cabot Oil & Gas Corp.	1994	28,986	3,601	2,561	2,711	2,722	2,326	1,986	2,538	2,299	2,637	2,242	1,844	1,519
	4703303907	Cabot Oil & Gas Corp.	1995	19,229	1,645	1,581	2,389	2,100	2,188	1,466	1,755	1,371	1,458	1,196	1,536	544
	4703303907	Cabot Oil & Gas Corp.	1996			811										1,916
	4703303907	Cabot Oil & Gas Corp.	1997	19,773	1,748	1,462	1,884	1,733	1,670	1,664	1,680	1,683	1,336	1,707	1,640	1,566
	4703303907	Cabot Oil & Gas Corp.	1998	14,453	1,152	1,063	1,336	1,365	1,399	1,526	1,013	1,306	1,209	1,393	1,107	584
	4703303907	Cabot Oil & Gas Corp.	1999	8,854	1,151	1,168	1,063	1,121	1,098	672	968	1,061	552	0	0	0
	4703303907	Enervest Operating, LLC	1999	2,305	0	0	0	0	0	0	0	0	0	628	949	728
	4703303907	Enervest Operating, LLC	2000	6,917	521	748	751	609	675	716	534	580	377	347	637	422
	4703303907	Enervest Operating, LLC	2001	7,364	432	344	240	274	852	759	625	780	473	1,023	847	715
1	4703303907	Enervest Operating, LLC	2002	4,896	630	516	515	456	438	415	408	390	287	316	235	
ı	4703303907	Enervest Operating, LLC	2003	1,959	180	311	147	183	204	112	114	78	44	39	0	547
	4703303907	Enervest Operating, LLC	2004	3,130	261	213	191	109	98	222	148	97	49	133	815	794
1	4703303907	Enervest Operating, LLC	2005	4,691	555	452	502	369	324	327	232	192	147	160	830	601
ı	4703303907	Enervest Operating, LLC	2006	3,956	520	420	536	385	357	279	229	186	54	330	330	330
	4703303907	Enervest Operating, LLC	2008	3	0	0	3	0	0	0	0	0	0	0	0	0
	4703303907	Enervest Operating, LLC	2010		0	0	0	0	0	0	0	0	0	1	50	31
	4703303907	Enervest Operating, LLC	2011		45	50	61	9	0	11	4	10	0	3	27	. 27
	4703303907	Enervest Operating, LLC	2012	75	13	0	1	15	45	0	1	0	0	0	0	0
	4703303907	Enervest Operating, LLC	2013	0	0	0	0	0	0	0	. 0	0	0	0	0	0
	4703303907	Enervest Operating, LLC	2014		0	0	0	0	0	0	0	0	0	0	0	0
	4703303907	Enervest Operating, LLC	2015		0	0	0	0	0	0	0	0	0	0	0	0
	4703303907	Enervest Operating, LLC	2016	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 * 2018 data are incomplete at this time

API	PRODUCING OPERATOR	PRD_YEAR	ANN_OIL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DCM
4703303907	EMAX, Inc.	1993	_												
4703303907	Cabot Oil & Gas Corp.	1993	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303907	Cabot Oil & Gas Corp.	1994	42	0	0	42	0	0	0	0	0	0	0	0	0
	Cabot Oil & Gas Corp.	1995	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cabot Oil & Gas Corp.	1996	30	0	0	0	0	0	0	0	0	30	0	0	0
	Cabot Oil & Gas Corp.	1997	0	0	0	0	0	0	0	0	0	0	0	0	0
	Cabot Oil & Gas Corp.	1998	43	0	0	0	11	0	18	0	0	0	13	0	1
	Cabot Oil & Gas Corp.	1999	35	15	19	1	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	1999	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2000	33	0	0	0	0	0	33	0	0	0	0	0	0
	Enervest Operating, LLC	2001	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2002	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2003	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2004	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2005	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2006	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2008	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2010	27	0	0	0	0	0	0	0	0	27	0	0	0
	Enervest Operating, LLC	2011	Ó	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2012	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2013	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2014	0	0	0	0	0	0	0	0	0	0	0	0	0
	Enervest Operating, LLC	2015	0	0	0	0	0	0	0	0	0	0	0	0	0
4703303907	Enervest Operating, LLC	2016	0												

Production Water Information: (Volumes in Gallons) * 2018 data are incomplete at this time

[API PRODUCING_OPERATOR PRD_YEAR ANN_WTR JAN FEB MAR APR MAY JUN JUL AUG SEP OCY NOV DCM

4703303907 Enervest Operating, LLC 2016 0

Ott daig: apri	y macinian	O1 1.							
API	SUFFIX	FM	FM_QUALITY	DEPTH_TOP	DEPTH_QUALITY	THICKNESS	THICKNESS_QUALITY	ELEV	DATUM
4703303907	Original Loc	unidentified coal	Well Record	140	Reasonable	4	Reasonable	1169	Ground Level
4703303907	Original Loc	unidentified coal	Well Record	858	Reasonable	4	Reasonable	1169	Ground Level
4703303907	Original Loc	Big Lime	Well Record	1465	Reasonable	61	Reasonable	1169	Ground Level
4703303907	Original Loc	Big Injun (undiff)	Well Record	1526	Reasonable	108	Reasonable	1169	Ground Level
4703303907	Original Loc	Fifth	Well Record	2475	Reasonable	21	Reasonable	1169	Ground Level
4703303907	Original Loc	Speechley	Well Record	3050	Reasonable	138	Reasonable	1169	Ground Level
4703303907	Original Loc	Balltown	Well Record	3392	Reasonable	32	Reasonable	1169	Ground Level
4703303907	Original Loc	Benson	Well Record	4526	Reasonable	8	Reasonable	1169	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_TOP O_BOT INCH2 IN

RECEIVED Office of Oil and Gas

AUG 1 5 2019

WV Department of Environmental Protection

<u>Downloadable Log Images:</u> 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.

FILENAME 4703303907g.tif

Calculpt Connection.

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

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.) I laterolog m dipmeter

n neutron (includes neutron porosity, sidewall neutron—SWN, etc.)

o other:

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

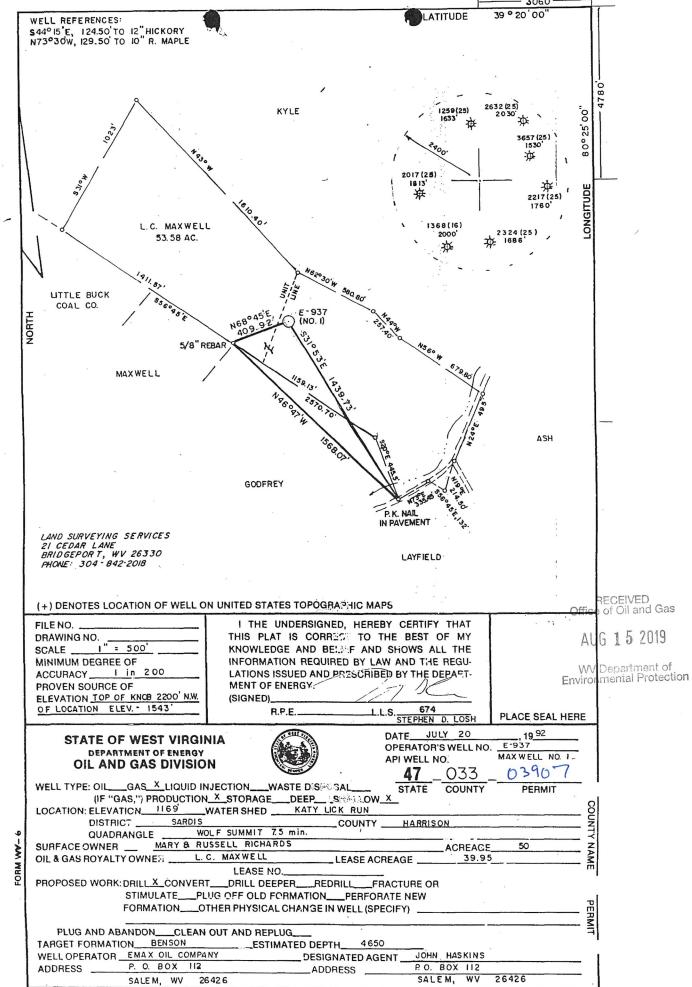
There is no Plugging data for this well

There is no Sample data for this well

RECEIVED Office of Oil and Gas

AUG 15 2019

WV Department of Environmental Protection



03907

WW-4A	
Revised	6-07

1) Date:	August 1, 2019	
2) Operator's V	Well Number	
E-937 L.C. Maxwell		

033

3) API Well No.: 47 -

		OF WEST VIRGINIA
\mathbf{DE}		TAL PROTECTION, OFFICE OF OIL AND GAS
	NOTICE OF APPLICATIO	N TO PLUG AND ABANDON A WELL
4) Surface Own	er(s) to be served: $/$ 5) ((a) Coal Operator
(a) Name	Russel E. & Mary Richards, et als	Name
Address	1904 State Park Rd.	Address
	Harrisville, WV 26362-7631	
(b) Name	Bradley Max & Loretta Louise Hinerman	(b) Coal Owner(s) with Declaration
Address	52 Hinerman Meadow Drive	Name
	Clarksburg, WV 26301-6592	Address
	/	
(c) Name	Larry Kyle, et als Frances O. Phares, et als	Name
Address	2827 Sardis Road 235 East Main Street	Address
	Clarksburg, WV 26301 Clarksburg, WV 25301	
6) Inspector	Sam Ward	(c) Coal Lessee with Declaration
Address	P.O. Box 2327	Name
Tidaloss	Buckhannon, WV 26201	Address
Telephone	304-389-7583	
rerepriorie		
MO WITE DE	DOONG NAMED ADOVE.	
TO THE PE	RSONS NAMED ABOVE: Yo	u should have received this Form and the following documents:
(i) m	N	The state of the s
	pplication to Plug and Abandon a Well on I ts and the plugging work order; and	Form WW-4B, which sets out the parties involved in the work and describes the
	lat (surveyor's map) showing the well location	on on Form WW-6.
The reason	you received these documents is that you have rigous are not required to take any action at all.	this regarding the application which are summarized in the instructions on the reverses side.
However, ye	of are not required to take any action at an.	
Take notice	that under Chapter 22-6 of the West Virginia Cod	le, the undersigned well operator proposes to file or has filed this Notice and Application and
accompanyi	ing 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 n the attached Application and depicted on the attached Form WW-6. Copies of this Notice,
the Applica	tion, 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
	umstances) on or before the day of mailing or deliver	
	14 · 2	
	Well Operator	EnerVest Operating, L.L.C.
120	RY L. JACKSON By:	Barry K. Lay
	Public Official Seal Its:	Senior Vice President and General Manager
	of West Virginia Address	300 Capitol Street, Suite 200

My Comm. Expires May 3, 2022

300 Capitol Street, Suite 200

Charleston, WV 25301

304-343-5505

Subscribed and sworn before me this _

6th day of August

My Commission Expires

Telephone

Notary Public

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 depprivacyoffier@wv.gov.

WW-9 (5/16)

API Number 47 -	. 033	-	03907
Operator's Well N	lo.		

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

FLOIDS/ CUTTINGS DISPOSAL & RECLAMATION FLAN	
Operator Name_EnerVest Operating, L.L.C. OP Code 30-9999	
Watershed (HUC 10) Katy Lick Run Quadrangle Wolf Summit	
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: No Pit To Be Built (Portable Containment Equipment)	
Will a synthetic liner be used in the pit? Yes No If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:	4
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)	
Off Site Disposal (Supply form WW-9 for disposal location)	
Other (Explain No Pit To Be Built. Any well effluent will be contained in tanks and properly disposed of offsite.	
Will closed loop systembe 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, etcOffice Additives to be used in drilling medium?	RECEIVED
Additives to be used in drilling medium?Office	e of Oil and Gas
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. At discretion of Contractor.	JG 15 2019
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) Environ Environ	Department of
-Landfill or offsite name/permit number?	imental Protection
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 iss on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable to 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 tapplication form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtain the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties submitting false information, including the possibility of fine or imprisonment. Company Official Signature Company Official Title Senior Vice President and General Manager Subscribed and sworn before me this day of Agust, 2017 Notary Public JERRY L. JAC	the law this ing for
My commission expires	ficial Seal Virginia May 3, 2022

Proposed Revegetation Treatment: Acre Lime according to ph test Tons/ Fertilizer type 10-20-20 Fertilizer amount 500 Mulch Hay or Straw 2 Temporary Seed Type Ibs/a Orchard Grass 25 Birdsfoot Treefoil 15 Ladino Clover 10	lbs/ Tons/ac	acre	nent lbs/acre	
Fertilizer type 10-20-20 Fertilizer amount 500 Mulch Hay or Straw 2 Temporary Seed Type Ibs/a Orchard Grass 25 Birdsfoot Treefoil 15	lbs/Tons/ac	acre re <u>Mixtures</u> Perma	lbs/acre	
Fertilizer amount 500 Mulch Hay or Straw 2 Temporary Seed Type lbs/a Orchard Grass 25 Birdsfoot Treefoil 15	Tons/ac	re <u>Mixtures</u> Perma Seed Type	lbs/acre	
Mulch Hay or Straw 2 Temporary Seed Type Ibs/a Orchard Grass 25 Birdsfoot Treefoil 15	Tons/ac	re <u>Mixtures</u> Perma Seed Type	lbs/acre	
Temporary Seed Type lbs/a Orchard Grass 25 Birdsfoot Treefoil 15	Seed !	<u>/lixtures</u> Perma Seed Type	lbs/acre	
Seed Type Ibs/a Orchard Grass 25 Birdsfoot Treefoil 15		Permanus Seed Type	lbs/acre	
Seed Type Ibs/a Orchard Grass 25 Birdsfoot Treefoil 15	cre	Seed Type	lbs/acre	
Orchard Grass 25 Birdsfoot Treefoil 15	cre			
			25	
Ladino Clover 10		Birdsfoot Treefoil	15	
	,	Ladino Clover	10	
provided). If water from the pit will be land (L, W), and area in acres, of the land appropriate photocopied section of involved 7.5' top	lication area.	t volume, include dimensions (E,	m, b) of the pa, and dimen	, cons
Plan Approved by:	andt			
Comments:			Offic	RECEIVED ce of Oil and Ga
			Al	UG 1 5 2019
			Wv. Enviro	/ Department of nmental Protecti

Field Reviewed?

WW-9- GPP Rev. 5/16

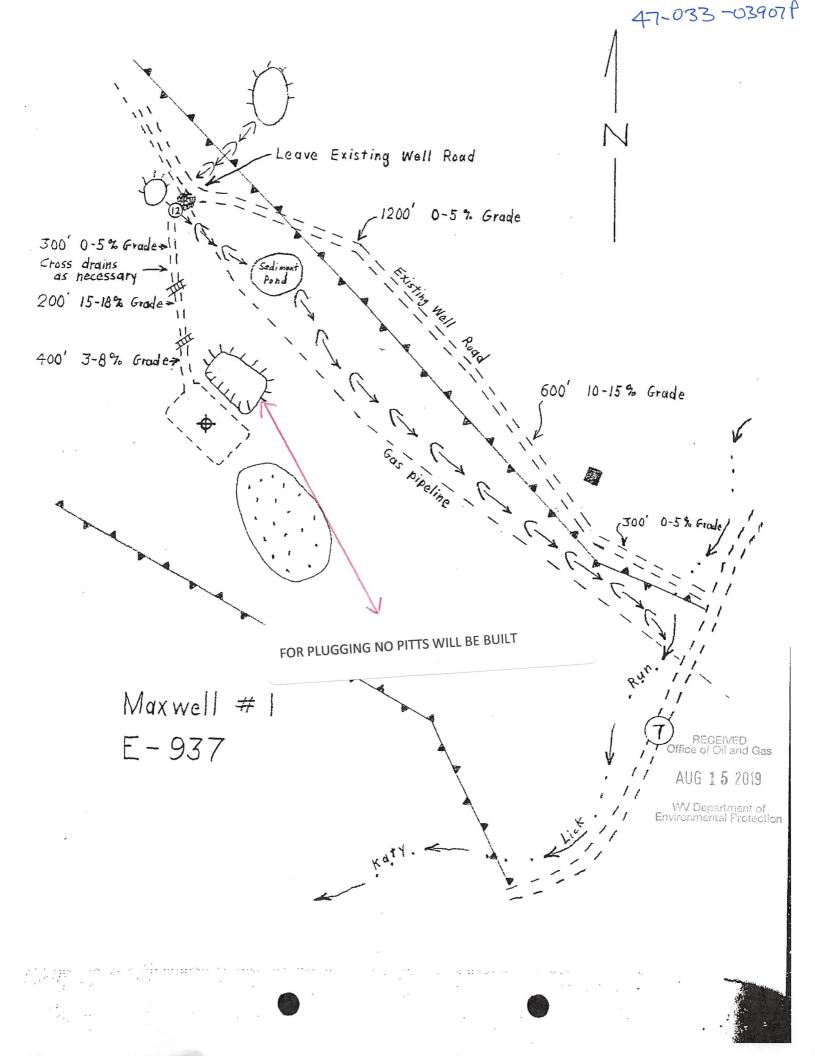
Page	of 2
API Number 47 - 033	_ 03907
Operator's Well No.	

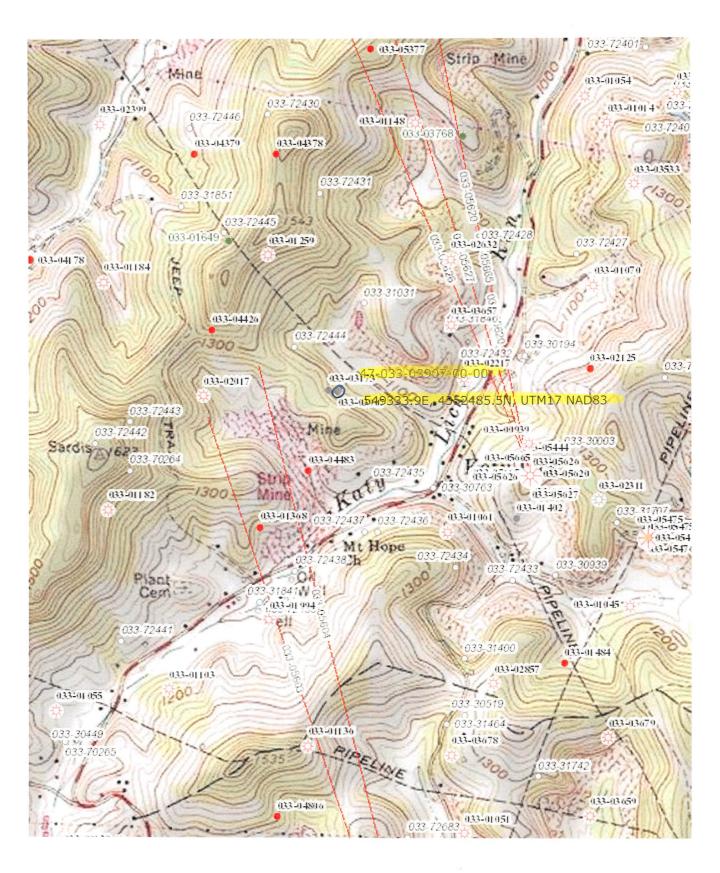
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

ECTION PLAN	
Quad: Wolf Summit	
. Include a list of all operations that could contaminate the	
aptured in portable flowback tanks for	
quality from the list of potential contaminant sources above.	
aptured in portable flowback tanks for proper	
d distance from closest Well Head Protection Area to the	
REC Office of C	EIVED Oil and Gas
AUG 1	5 2019
WV Depa Environment	artment of tal Protection
for groundwater protection.	
	Quad: Wolf Summit Include a list of all operations that could contaminate the aptured in portable flowback tanks for quality from the list of potential contaminant sources above. aptured in portable flowback tanks for proper d distance from closest Well Head Protection Area to the Office of AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I WV Department of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I Environment of the second potential contaminant sources above. AUG I ENVI ENV

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

ww	V-9- GPP	N/A	Page	2_{of} 2
	. 5/16		API Number 47 - 033	_ 03907
			Operator's Well No	
6.	Provide a state	ment that no waste material will be used for deicing or f	ill material on the property.	
·-	110 vide a state	mont that no waste material will be used for detering of t	m material on the property.	
-				
7.	Describe the	roundwater protection instruction and training to be p	rovided to the employees. Job	procedures shall
	provide directi	on on how to prevent groundwater contamination.		
				**
L				how how have them I I them have
8.	Provide provis	ions and frequency for inspections of all GPP elements	and equipment	RECEIVED Office of Oil and Gas
0.	Tiovide provis	ions and nequency for inspections of an of 1 elements		AUG 1 5 2019
				AUU 1 0 2013
				WV Department of Environmental Protection
				Environmental Protection
C:	gnature:			
SI	gnature:	The state of the s		
Da	ate:	18/2019		





http://deparcgis1/ooggis/index.html?x=549333.9&y=4352485.5&datum=NAD83&pntlabe... 10/1/2019



West Virginia Department of Environmental Protection Office of Oil and Gas

WELL LOCATION FORM: GPS

WELL LUCATION FURIM: GPS			
API: 47-033-03907 WELL NO.: E-937	7 L.C. Maxwell #1		
FARM NAME: Mary & Russell Richards, et a	l		
RESPONSIBLE PARTY NAME: Jerry L. Jackson COUNTY: Harrison DISTRICT: Sarce			
COUNTY: Harrison DISTRICT: Sarc	lis		
QUADRANGLE: Wolf Summit			
SURFACE OWNER: Russell E. & Mary L. Richa	ards, et al		
ROYALTY OWNER: L.C. Maxwell, et al			
UTM GPS NORTHING: 4352485.5			
UTM GPS NORTHING: 4352485.5 UTM GPS EASTING: 549333.9 GPS ELEVATION	_{N:} 1169'		
The Responsible Party named above has chosen to submit GPS coordinate preparing a new well location plat for a plugging permit or assigned API above well. The Office of Oil and Gas will not accept GPS coordinates to the following requirements: 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meter height above mean sea level (MSL) – meters. 2. Accuracy to Datum – 3.05 meters 3. Data Collection Method: Survey grade GPS: Post Processed Differential	number on the hat do not meet		
Real-Time Differential	WV Department of Environmental Protectio		
Mapping Grade GPS: Post Processed Differential Real-Time Differential	Environmental Protectio		
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 Land Manager Title	8/01/2018 Date		