



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, November 12, 2020
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 C-1-1143
47-099-01454-00-00

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.

A handwritten signature in blue ink, appearing to read 'James A. Martin', is positioned above the printed name and title.

James A. Martin
Chief

Operator's Well Number: C-1-1143
Farm Name: ASBURY, BARNEY C.
U.S. WELL NUMBER: 47-099-01454-00-00
Vertical Plugging
Date Issued: 11/12/2020

Promoting a healthy environment.

II

47-099-01454A

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.

1) Date October 01, 2020
2) Operator's
Well No. Asbury, B. #C-1
3) API Well No. 47-099 - 01454

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 X or Underground storage ___) Deep ___ / Shallow ___

5) Location: Elevation 694.92' Watershed Big Harts Creek - Guyandotte River
District Ceredo County Wayne Quadrangle Ceredo

6) Well Operator EnerVest Operating LLC 7) Designated Agent Steve Downey
Address 300 Capitol St. E., Ste 200 Address same
Charleston, WV 25301

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Terry Urban Name To be determined
Address PO Box 1207 Address _____
Clendenin, WV 25045

10) Work Order: The work order for the manner of plugging this well is as follows:

See attached procedure.

*Operator will cover with Cement
All Oil & Gas bearing formations, Salt & Eluvation, fresh water &
Coal & Displace with 6% gel*

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[Signature]
10-27-20

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

Work order approved by inspector _____ Date _____

Asbury #C-1, B. (359)
 API# 47-099-01454
 Elevation: 694.92' GL – 5' KB
 Latitude: 38.287022
 Longitude: -82.5

Asbury #C-1, B. Well Data

Casing: 10-3/4" 32.75 ppf Conductor Csg @ 311' – 13 Jts – No record of cementing
 8-5/8" 24 ppf Surface Csg @ 1286' – 44 Jts - No record of cementing
 7" 20 ppf Intermediate Csg @ 2109' – 70 Jts - No record of cementing
 5-1/2" 14 ppf Production Csg @ 3692' – 121 Jts – TOC Estimate 3200'
 No Tubing in well
 Filled w/ rock to 3814' w/ 1 sk cement on top of rock

TD: 3832' – Filled w/ rock to 3814' w/ 1 sk cement on top of rock

Latch Down: 3685'

Perforations: Shot F/ 3747' - T/ 3810' w/ 400# Trojan Powder

Recomplete Perfs: N/A

Coal: 200'–204'

Fresh Water Shows: 25', 400'–450',

Salt Water Shows: 1070', 1590', 3250'–3272'

Gas/Oil Shows: 2083', 2102', 2874', 3272', 3750'–3757'

Asbury #C-1, B. Procedure:

1. Notify State Inspector, Terry Urban – (304)-549-5915 - Terry.W.Urban@wv.gov, 24 hours prior to commencing operations.
2. Prep Asbury #C-1, B. location.
3. MIRU service rig, steel pits, work string of 4000' 2-3/8" EUE tbg, and other ancillary equipment.
4. Perform csg Freepoint test on 5-1/2" and note where free. Compare to estimated TOC.
5. RIH w/ 2-3/8" work string to bottom of 5-1/2" Production csg @ 3692'. Deepest cleaned out depth after shooting is recorded as 3790'. *SPOT GEL.*
6. PU 10' off bottom.
7. Set 200' cement plug F/ 3680' - T/ 3480' (Shot F/ 3810' - T/ 3747' w/ 400# Trojan Powder). *Plugback?*
8. TOOH to 3280', WOC 8 hrs, RIH & tag plug, add cement if needed.
9. Spot 6% gel from TOC to 3175', or to 50' above location of next cement plug.
10. 5-1/2" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel being spotted between each plug.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 100' plug F/ 3225' – T/ 3125'.
 - c. 100' plug F/ 2849' – T/ 2749'. Perforations are required at 2849' if 5-1/2" csg is still present.
11. Perform Freepoint on 7" csg and note where free
12. 7" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be

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removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel spotted between each plug. Plugs can be combined if rip location is similar to other plugs listed.

200 ft

- a. 100' plug across from casing rip, 50' below and 50' above rip.
- b. 100' plug F/ 2058' – T/ 1958'. Perforations are required at 2058' if 7" csg is still present.
- c. 100' plug F/ 1565' – T/ 1465'. Perforations are required at 1565' if 7" csg is still present.

- 13. Perform Freepoint on 8-5/8" csg and note where free
- 14. 8-5/8" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel spotted between each plug. Plugs can be combined if rip location is similar to other plugs listed.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 100' plug F/ 1045' – T/ 945'. Perforations are required at 1045' if 8-5/8" csg is still present.
 - c. 100' plug F/ 400' – T/ 300'. Perforations are required at 400' if 8-5/8" csg is still present.

COVER
COAL W/
CEMENT
FROM 250' - 150'
MAY NEED TO
PERFORATE.
JWM



- 15. 10-3/4" Casing will be ripped and removed from well bore where free. The following cement plugs set will be set, with the order depending on where casing is free and able to be removed. Cement plugs will be tagged 8 hrs after pumping, with 6% gel spotted between each plug. Plugs can be combined if rip location is similar to other plugs listed.
 - a. 100' plug across from casing rip, 50' below and 50' above rip.
 - b. 100' plug F/ 100' – T/ Surface (Surface Plug). Perforations are required at 100' if 10-3/4" csg is still present.
- 16. Erect a monument to WV DEP specifications (CSR 35-4-5.5 – sub "b").
- 17. Reclaim location and roads to WV DEP Specifications.

[Handwritten Signature]
10-27-20

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47-099-01454P

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 31

Quadrangle Ceredo

WELL RECORD

Permit No. Way-1454

Oil or Gas Well GAS
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. BOX 4168, Charleston 4, W. Va.
Farm Barney Asbury "C" Acres 100

Location (waters) _____
Well No. 1 (Serial No. 1143) Elev. 694.92
District Ceredo County Wayne

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by Mr. Barney Asbury
Address Wayne, W. Va.

Drilling commenced April 22, 1963

Drilling completed July 23, 1963

Date Shot 8-1-63 From 3747 To 3810

With 400# Trojan Powder

Open Flow /10ths Water in _____ Inch

/10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock Pressure _____ lbs. _____ hrs.

Oil _____ bbls. 1st 24 hrs.

WELL ACIDIZED Dowell acidized Big Six Sand
with 2,000 gals. intensified acid & 93 bbls.
water to flush acid.
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10 - 3/4"	311'1"	311'1"	Size of
8 5/8"	1278'	Pulled	
8 5/8"	1286'2"	1286'2"	Depth set
7"	2095'11"	Pulled	
7"	P109'P"	P109'2"	Perf. top
5-1/2"	3687'4"	3687'4"	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 5-1/2" SIZE 492 No. Ft. 7-3-63 Date
Halliburton cemented 5-1/2" csg. with 30 bags
Marquette cement.
COAL WAS ENCOUNTERED AT 200 FEET 48 INCHES
FEET _____ INCHES FEET _____ INCHES
FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT 134 MCF Big Six Sand

ROCK PRESSURE AFTER TREATMENT 1050 lbs. in 48 hrs.

Fresh Water 25 Feet 400-450 Salt Water 1070', 1500' Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface	Red	Soft	0	12			
Slate	Dark	Soft	12	112	Water at 25'	2 BPH	
Red Rock	Red	Med.	112	137			
Slate	Grey	Med.	137	140			
Red Rock	Red	Med.	140	160			
Slate	Dark	Med.	160	200			
Coal	Black	Soft	200	204			
Broken Sand	Grey	Med.	204	244			
Slate	Grey	Med.	244	315			
Broken Sand	Grey	Med.	315	357			
Slate	Grey	Soft	357	372			
Sand	Light	Soft	372	460	Water at 400-450'	1 BPH	
Slate	Light	Med.	460	470			
Sand	Light	Med.	470	490			
Slate	Dark	Med.	490	522			
Sand	Light	Med.	522	609			
Slate	Dark	Med.	609	648			
Slate	Dark	Soft	648	668			
Sand	Dark	Med.	668	718			
Slate	Dark	Med.	718	864			
Broken Sand	Light	Med.	864	872			
Slate	Dark	Med.	872	899			
Sand	Light	Med.	899	919			
Slate	Light	Med.	919	959			
Sand	Light	Med.	959	973			
Slate	Dark	Med.	973	997			
Sand	Light	Med.	997	1007			

4-25-63
SIM 310 Sand IM 310
installed 10-3/4" casing on a shoe at
310'.

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Formation	Color	Hard or Soft	Top \int	Bottom	Oil, Gas or Water	Depth Found	Remarks
Slate	Dark	Med.	1007	1053			
Sand	Light	Hard	1053	1068			
Water Sand	Light	Med.	1068	1083	Water at 1070'		Hole full
Settling Sand	Light	Med.	1063	1117			
Sand	Light	Hard	1117	1133			
Slate	Dark	Soft	1133	1151			
Sand	Light	Hard	1151	1178			
Slate	Dark	Med.	1178	1182			
Slate	Dark	Soft	1182	1188			
Sand	Dark	Hard	1188	1198			
Slate	Dark	Med.	1198	1231			
Little Line	Dark	Hard	1231	1238			
Slate	Dark	Hard	1238	1248			
Little Line	Dark	Hard	1248	1260			
Slate	White	Soft	1260	1262			
Big Line	White	Hard	1262	1298			
Big Lime	White	Hard	1298	1415			
Injun Sand	Grey	Med.	1415	1614	Water at 1590'		1-1/2 BPH
Sand	Grey	Hard	1614	1639			
S1 & Shis	Dark	Med.	1639	1663			
Slate	Grey	Med.	1663	1706			
S1 & Shis	Dark	Med.	1706	1738			
Slate	Grey	Med.	1738	1776			
S1 & Shis	Dark	Med.	1776	2007			
Shell	Dark	Hard	2007	2025			
Slate	Dark	Med.	2025	2041			
Coffee Shale	Dark	Soft	2041	2073			
Berea Sand	Grey	Hard	2073	2091	Gas at 2083'		20.7 M
Slate	Dark	Med.	2091	2095			
Shell	Black	Hard	2095	2106			
Slate	Dark	Med.	2106	2109			
Shell	Dark	Med.	2109	2115			
S1 & Shis	Dark	Med.	2115	2148			
Shell	Dark	Med.	2148	2153			
Br. Shale	Brown	Med.	2153	2277			
Slate	White	Med.	2277	2379			
Br. Shale	Brown	Med.	2379	2860			
Slate	White	Med.	2860	3068	Gas 2874'		300 cu.ft.
Br. Shale	Brown	Med.	3068	3089			
Br. Shale	Brown	Med.	3089	3100			
Corn. Line	Dark	Hard	3100	3306	Show of black water 3250-3272'		1/2 BPH Gas 3272' 490 cu.ft.
Corn. Lime	Dark	Hard	3306	3546			
Corn. Lime	Dark	Hard	3546	3692			
Corn. Lime	Dark	Hard	3692	3698			
Corn. Lime	Dark	Hard	3698	3747			
Big Six	Grey	Hard	3747	3777	Gas 3750'		8.6 MCF Gas 3753' 9.6 MCF Gas 3755' 11.4 MCF Gas 3757' 12.2 MCF
Big Six Sand	Grey	Hard	3777	3810			
Slate	Grey	Soft	3810	3813			
Red Rock	Red	Med.	3813	3832	2 Min. test 3832'		11.0 MCF
Total Depth 3832'					Filled with rock to 3814'		SIM 3814' Cement (1 sack) dumped on rock

Date September 6, 1963

APPROVED OWENS, LIBBEY-OWENS GAS DEPARTMENT, Owner

By *A. H. Smith*
A. H. Smith, Mgr. (Title Land, Engrg. & Geol.)

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 31A

Quadrangle Ceredo

Permit No. Way-1454

WELL RECORD
(BASE TWO)

Oil or Gas Well GAS
(KIND)

Company OWENS, LIBBEY-OWENS GAS DEPARTMENT
Address P. O. Box 4168, Charleston 4, W. Va.
Farm Barney Asbury "C" Acres 100
Location (waters)
Well No. 1 (Serial No. 1143) Elev. 694.92
District _____ County _____
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced _____
Drilling completed _____
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10			Sire of
8 1/4			
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES
_____ FEET _____ INCHES _____ FEET _____ INCHES

RESULT AFTER TREATMENT

ROCK PRESSURE AFTER TREATMENT

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
							<p><u>8-1-63</u> Test before shot: 14 MCF T.D. before shot - 3805' King Torpedo Co. shot the Big Six Sand from 3743' to 3805' with 400# Trojan Powder. Test 15 Min. A.S. 133 MCF Test 8 Era. A.S. 38.3 MCF</p> <p><u>8-7-63</u> Test 9:45 A.M. 33.2 MCF Dowell acidized the Big Six Sand with 2,000 gals. intensified acid. Used 93 bbls. water to flush acid.</p> <p><u>8-14-63</u> Test 6:50 P.M. 150 MCF</p>

(over)



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47-099-01454P

DWENS, LIBBEY, OWENS
GAS DEPARTMENT

Lease No. **2856** Well No. **1** Tract **Barney Asbury "C"** Serial Well No. **1143**

Map Square **D-36** Acres **100** District **Ceredo** County **Wayne** State **W. Va.**
Permit No. **Way-1454** Elevation **694.92** Work done by: **Clifford Mills, Contractor**

Drillers' Names: **John Chadrick, H. Freley**
Commenced Rigging Up Commenced Drilling **4-22-63** Completed Drilling **7-23-63**
Well Completed **8-19-63** Commenced Producing Abandoned

CONDUCTOR, CASING AND TUBING					PACKERS, Kind	CLOSED IN PRESSURE		
SIZE	WEIGHT	NO. OF JOINTS	USED IN DRILLING	LEFT IN WELL		Size	CASING HEAD	CASING
10-3/4	32.75	13	311'1"	311'1"	Set		5 1/2"	
8-5/8	84	45	1278'	Pulled	Kind		4"	
8-5/8	24	44	1286'2"	1286'2"	Size		4"	
7	20	69	2095'11"	Pulled	Set		6"	
7	20	70	2109'2"	2109'2"	Perforations	5 1/2" csg. cemented in	8"	
5-1/2	14	121	3687'4"	3687'4"		3200 - 3692'	10"	
							14 Hours	950
							48 Hours	1050

Shot **8-1-163** from **3747** to **3810** with **400# Trojan Powder** tamped with
Open flow before: **13.6** MCF; 15 Min. after: **133** MCF; 8 hours after: **38** MCF
Shot **19** from to with tamped with
Open flow before: MCF; 15 Min. after: MCF; hours after: MCF
Acid or other treatment: **8-7-63 Acidized Big Six Sand --- See Remarks**

OIL WELL Initial test: barrels per flowing. barrels per pumping.
GAS WELL Open flow: **Big Six Sand** Total **134** MCF

Well shut in 8-19-63 at 7:14 P.M.

DRILLERS' RECORD

FORMATION	COLOR	HARDNESS	TOP	BOTTOM	THICKNESS	REMARKS
Surface	Bed	Soft	0	12	12	Pot in 14' conductor
Slate	Dark	Soft	12	112	100	Water at 25' 2 BPH
Bed Boek	Bed	Med.	112	137	25	
Slate	Grey	Med.	137	140	3	
Bed Boek	Bed	Med.	140	160	20	
Slate	Bark	Med.	160	200	40	
Coal	Black	Soft	200	204	4	
Broken Sand	Grey	Med.	204	244	40	
Slate	Grey	Med.	244	315	71	4-25-63 SLM 310 = Sand LM 310 Installed 10-3/4" casing on a shoe at 310' Put in 28' of red mud.
Broken Sand	Grey	Med.	315	357	42	
Slate	Grey	Soft	357	372	15	
Sand	Light	Soft	372	460	88	Water at 400-450' 1 BPH
Slate	Light	Med.	460	470	10	
Sand	Light	Med.	470	490	20	
Slate	Dark	Med.	490	522	32	
Sand	Light	Med.	522	609	87	
Slate	Dark	Med.	609	648	39	SLM 648 = Sand LM 650
Slate	Dark	Soft	648	668	20	
Sand	Dark	Med.	668	718	50	
Slate	Dark	Med.	718	864	146	
Broken Sand	Light	Med.	864	872	8	
Slate	Dark	Med.	872	899	27	
Sand	Light	Med.	899	919	20	
Slate	Light	Med.	919	959	40	
Sand	Light	Med.	959	973	14	
Slate	Dark	Med.	973	997	24	
Sand	Light	Med.	997	1007	10	
Slate	Dark	Med.	1007	1053	46	
Sand	Light	Hard	1053	1068	15	
Water Sand	Light	Med.	1068	1083	15	Water at 1070' Hole full
Settling Sand	Light	Med.	1083	1117	34	
Sand	Light	Hard	1117	1133	16	
Slate	Dark	Soft	1133	1151	18	
Sand	Light	Hard	1151	1178	27	
Slate	Dark	Med.	1178	1182	4	Top of water in hole 185' 61M 1182 = Sand LM 1184
Slate	Dark	Soft	1182	1188	6	
Sand	Dark	Hard	1188	1198	10	
Slate	Dark	Med.	1198	1231	33	

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DRILLERS' RECORD

FORMATION	COLOR	HARDNESS	TOP	BOTTOM	THICKNESS	REMARKS
Slate	Dark	Hard	1238	1248	10	<p>5-9-63 SIM 1279 = Sand IM 1280 Installed 8-5/8" casing at 1279' on a shoe in red mud. Casing leaking, water would not bail down. 5-10-63 Pulled 1278' of 8-5/8" casing. Drilled to 1283' and reamed hole to 1283'. 5-11-63 SIM 1288 = Sand LM 1288 Re-installed 8-5/8" casing at 1288' on a shoe. Made 10' of hole and bailed hole dry. SIM 1298 = Sand LM 1298 5-12-63 Bailed hole dry at 3:00 A.M.</p>
Little Lime	Dark	Hard	1248	1260	12	
Slate	White	Soft	1260	1262	2	
Big Lime	White	Hard	1262	1298	36	
Big Lime	White	Hard	1298	1415	117	<p>Water at 1590' 1 1/2 BHI</p> <p>SIM 1706 = Sand LM 1709 400' water in hole over the weekend.</p> <p>SIM 2078 = Sand LM 2078 Gas at 2083' 7/10 w 1 = 20.7 M Test 2088' 6/10 w 1 = 19.2 M</p> <p>SIM 2098 = Sand LM 2096 5-24-63 Installed 7" casing at 2098' on a shoe in red clay. Bailed hole. Water would not bail down. Made 6' of hole. 5-25-63 Hole would not bail dry. Show of oil 2102' Pulled 2095' 11" of 7" casing. Shoe on casing was worn by tools. 5-27-63 SIM 2110 = Sand LM 2110 Test 2110' 16/10 w 5/8 = 12.2 M Ran hole straightener. 5-28-63 Ran flat bit. Re-installed 7" casing at 2110' on a shoe. Set casing in red mud. Bailed hole dry. 5-29-63 Bailed hole dry at 5:00 A.M.</p> <p>SIM 2379 = Sand LM 2381 Gas 2874' 6/10 w 1/8 = 300 cu.ft. Test 2970' 6/10 w 1/8 = 300 cu.ft. SIM 3089 = Sand LM 3087 Test 3089' 6/10 w 1/8 = 300 cu.ft. SIM 3100 = Sand LM 3100 Test 3100' 5/10 w 1/8 = 274 cu.ft. Test 3183 = No gas Show of black water 3250-3272' 1/2 BHI Gas 3272' 16/10 w 1/8 = 490 cu.ft. (gas sweet) Test 3306' 3/10 w 1/8 = 212 cu.ft. SIM 3306 = Sand LM 3307 6-17-63 Found 5 - 6" bailers of water in hole after 24 hrs. Test 3306' 4/10 w 1/8 = 245 cu.ft.; gas sour</p>
Injma Sand	Grey	Med.	1415	1614	199	
Sand	Grey	Hard	1614	1639	25	
Slate & Shells	Dark	Med.	1639	1663	24	
Slate	Grey	Med.	1663	1706	43	
Slate & Shells	Dark	Med.	1706	1738	32	
Slate	Grey	Med.	1738	1776	38	
Slate & Shells	Dark	Med.	1776	2007	231	
Shell	Dark	Hard	2007	2025	18	
Slate	Dark	Med.	2025	2041	16	
Coffee Shale	Black	Soft	2041	2073	32	
Berea Sand	Grey	Hard	2073	2091	18	
Slate	Dark	Med.	2091	2095	4	
Shell	Black	Hard	2095	2106	11	
Slate	Dark	Med.	2106	2109	3	
Shell	Dark	Med.	2109	2115	6	
Slate & Shells	Dark	Med.	2115	2148	33	
Shell	Dark	Med.	2148	2153	5	
Brown Shale	Brown	Med.	2153	2277	124	
Slate	White	Med.	2277	2379	102	
Brown Shale	Brown	Med.	2379	2860	481	
Slate	White	Med.	2860	3068	208	
Brown Shale	Brown	Med.	3068	3089	21	
Brown Shale	Brown	Med.	3089	3100	11	
Com. Lime	Dark	Hard	3100	3306	206	
Com. Lime	Dark	Hard	3306	3546	240	

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Office of Oil and Gas

OCT 27 2020

WV Department of
Environmental Protection

OWENS, LIBBEY, OWENS
GAS DEPARTMENT

Case No. **2856** Well No. **1** Tract **Harney Asbury "C"** Serial Well No. **1143**

Map Square _____ Acres _____ District _____ County _____ State _____

Permit No. _____ Elevation _____ Work done by: _____

Drillers' Names: _____

Commenced Rigging Up _____ Commenced Drilling _____ Completed Drilling _____
Well Completed _____ Commenced Producing _____ Abandoned _____

CONDUCTOR, CASING AND TUBING					PACKERS, Kind	CLOSED IN PRESSURE			
SIZE	WEIGHT	NO. OF JOINTS	USED IN DRILLING	LEFT IN WELL		Size	CASING HEAD	CASING	TUBING
					Size				
					Set				
					Kind	1 Min.			
					Size	2 Min.			
					Set	3 Min.			
					Perforations	4 Min.			
						5 Min.			
						10 Min.			
						Hours			
						Hours			

hot 19 , from _____ to _____ with _____ tamped with _____
Open flow before: _____ MCF; 15 Min. after: _____ MCF; _____ hours after: _____ MCF
hot 19 , from _____ to _____ with _____ tamped with _____
Open flow before: _____ MCF; 15 Min. after: _____ MCF; _____ hours after: _____ MCF
Acid or other treatment: _____

OIL WELL Initial test: _____ barrels per _____ flowing. _____ barrels per _____ pumping.
GAS WELL Open flow: _____ Total _____ MCF

DRILLERS' RECORD

FORMATION	COLOR	HARDNESS	TOP	BOTTOM	THICKNESS	REMARKS
Corn. Lime	Dark	Hard	3546	3692	156	Test 3416' 4/10 w 1/8 = 245 cu.ft. Test 3546' 4/10 w 1/8 = 245 cu.ft. SIM 3546 = Sand IM 3549 6-24-63 Found 4 - 7" ballers of water after 24 hrs. Test 3559' 4/10 w 1/8 = 245 cu.ft. Test 3600' 4/10 w 1/8 = 245 cu.ft. Test 3631' 2/10 w 1/8 = 173 cu.ft. Test 3692' 2/10 w 1/8 = 173 cu.ft.; gas sweet. SIM 3692 = Sand IM 3690' 6-26-63 Found 95 gals. water in 35 hrs. at 3692' Test 3692' 2/10 w 1/8 = 173 cu.ft. 7-2-63 Took down tools 10 hrs. SIM 3692 = Sand IM 3692' 7-3-63 Ran and cemented 5 1/2" easing 10 hrs. Installed 5 1/2" casing at 3692' on a shoe with 3 centralizers. Casing set 1' off bottom hole. Halliburton cemented in the 5 1/2" casing from 3200'-3692' with 30 bags Marquette cement. 7-8-63 Contractor had motor trouble. Balled to 38' off bottom. 7-9-63 Swabbed water 12 hrs. 7-10-63 Drilled out cement 12 hrs. 7-11-63 Drilled out cement and made dry run. 7-15-63 Found 3 gals. water in 90 hr. test. Balled hole dry and made dry run. 7-16-63 Hole dry in a 24 hr. test. SIM 3747' SIM 3750 = Sand IM 3756 Gas 3750' 8/10 w 5/8 = 8.6 M Gas 3753' 10/10 w 5/8 = 9.6 M Gas 3755' 14/10 w 5/8 = 11.4 M
Corn. Lime	Dark	Hard	3692	3698	6	
Corn. Lime Big Six Sand	Dark Grey	Hard Hard	3698 3747	3747 3777	49 30	

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DRILLERS' RECORD

47-099-01454P

FORMATION	COLOR	HARDNESS	TOP	BOTTOM	THICKNESS	REMARKS
Big Six Sand	Grey	Hard	3777	3810	33	<p>Oas 3757' 16/10 w 5/8 = 12.2 M Test 3777' 11/10 w 5/8 = 10.1 M SIM 3777 = Sand IM 3777 2 min. test 3779' 18/10 w 5/8 = 12.9 M 2 min. test 3790' 13/10 w 5/8 = 11.0 M 2 min. test 3801' 18/10 w 5/8 = 12.9 M</p>
Slate Red Rock	Grey Bed	Soft Med.	3810 3813	3813 3832	3 19	<p>2 min. test 3832' 13/10 w 5/8 = 11.0 M 7-26-63 Mills SIM 3832 = Old SIM 3833 Test 9:30 A.M. 13/10 w 5/8 = 11.0 M Filled with rock to 3814' SIM 3814 Cement (1 sack) dumped on rock. Test 4:10 P.M. 13/10 w 5/8 = 11.0 M Well shut in 4:10 P.M. 10 min. rock pressure - 3#</p>
		Total	Depth	3832'		<p>7-29-63 64 hr. rock pressure 565# 8-1-63 Blew well. Shot well and tested gas 10 hrs. Test before shot; 20/10 w 5/8 = 14 M T.D. before shot: 3805' King Torpedo Co. shot the Big Six Sand from 3743' to 3805' with 400# Trojan Powder. Tests: 15 Min. A.S. 18/10 w 2 = 133 M 1 Hr. A.S. 6 1/2/10 w 1 = 62.7 M 2 Hrs. A.S. 38/10 w 1 = 48.3 M Put water in hole to clean out shot hole. Cleaned out from 3743 to 3761' 8 Hrs. A.S. 2 1/2/10 w 1 = 38.3 M Well shut in 7:04 P.M. 10 min. rock pressure - 7#</p>
						<p>8-2-63 12 hr. rock pressure - 428# Blew well 6:52 A.M. Cleaned out shot hole 12 hrs. from 3761-3771 Test 8:50 A.M. 30/10 w 1 = 42.9 M 12:50 A.M. 22/10 w 1 = 36.7 M 6:50 P.M. 20/10 w 1 = 35.0 M Well shut in 7:00 P.M. 10 min. rock pressure 6#</p>
						<p>8-3-63 12 hr. rock pressure 414# Blew well 7:00 A.M. Cleaned out shot hole 12 hrs. from 3771-3785 Test 11:00 A.M. 22/10 w 1 = 36.7 M Test 7:00 P.M. 20/10 w 1 = 35.0 M Well shut in 7:00 P.M. 10 min. rock pressure 6#</p>
						<p>8-5-63 36 hr. rock pressure 850# Blew well 6:50 A.M. Cleaned out 12 hrs. from 3785-3789' Test 12:00 NOON 20/10 w 1 = 35.0 M 7:00 P.M. 20/10 w 1 = 35.0 M Well shut in 7:00 P.M. 10 min. rock pressure 6#</p>
						<p>8-6-63 12 hr. rock pressure 408# Blew well 6:45 A.M. Cleaned out 8 hrs. from 3789-3790' Test 11:00 A.M. 20/10 w 1 = 35.0 M Ban baller and bailed out 5 gals, water each run. SIM 3790 = Sand IM 3790 Test 4:00 P.M. 19/10 w 1 = 34.1 M Well shut in 6:45 P.M. 10 min. rock pressure 5#</p>
						<p>8-7-63 12 hr. rock pressure - 384# Blew well 6:45 A.M. Test 9:45 A.M. 18/10 w 1 = 33.2 M</p>

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OWENS, LIBBEY-OWENS
GAS DEPARTMENT

Lease No. 2856 Well No. 1 Tract Barney Asbury "C" Serial Well

8-7-63 (Cont'd)

Dowell acidised the Big Six Sand with 2,000 gals. of intensified acid. Used 93 bbls. water to flush acid.

Max. treating pressure 2000#
Mia. treating pressure 100#
Treatment completed at 11:26 A.M. with 2,000# pressure on well.

Well opened and water started to flow at 11:38 A.M.

Started to swab water and 11:48 A.M.

Blew out water 1:00 P.M.

Test 1:00 P.M. 56/10 w 3 = 528 M

Started to bail at 1:30 P.M.

3:00 P.M. 50/10 w 2 = 222 M

5:00 P.M. 36/10 w 2 = 188 M

7:00 P.M. 28/10 w 2 = 166 M

10:00 P.M. 24/10 w 2 = 154 M

Midnight 22/10 w 2 = 147 M

8-8-63

Bailed water and tested gas 18 hrs.

2:00 A.M. 60/10 w 1 1/2 = 137 M

6:00 A.M. 58/10 w 1 1/2 = 134 M

10:00 A.M. 56/10 w 1 1/2 = 132 M

2:00 P.M. 52/10 w 1 1/2 = 127 M

4:00 P.M. 51/10 w 1 1/2 = 126 M

6:00 P.M. 51/10 w 1 1/2 = 126 M 1/2 Gal. per hr.

Bailer went to 377 1/2'

Well shut in 6:30 P.M.

Rock pressure 1 Mia. 2#

2 " 3

3 " 4

4 " 6

5 " 8

10 " 17

24 Hrs. 875#

48 Hrs. 1000#

84 hrs. 1050#

8-12-63

84 hr. rock pressure - 1050#

Blew well 6:50 A.M.

Bailed water and tested gas 12 hrs.

7:50 A.M. 80/10 w 2 = 280 M No water

9:50 A.M. 44/10 w 2 = 208 M 1/2 Gal.

11:50 A.M. 35/10 w 2 = 185 M 1/2 Gal.

1:50 P.M. 30/10 w 2 = 172 M 3 Pts.

3:50 P.M. 27/10 w 2 = 163 M 1 Qt.

5:50 P.M. 25/10 w 2 = 157 M 1 Qt.

6:50 P.M. 24/10 w 2 = 154 M 1 Qt.

Well shut in 6:50 P.M.

10 mia. rock pressure 18#

8-14-63

36 hr. rock pressure 1000#

Blew well 7:05 A.M.

Bailed water and tested gas 12 hrs.

8:00 A.M. 74/10 w 2 = 270 M 3 Pts.

10:00 A.M. 40/10 w 2 = 198 M 1/2 Gal.

12:00 Noon 31/10 w 2 = 175 M 1/2 Gal.

2:00 P.M. 25/10 w 2 = 157 M 3 Qts.

4:00 P.M. 25/10 w 2 = 157 M 3 Qts.

6:00 P.M. 23/10 w 2 = 150 M 3 Qts.

6:50 P.M. 23/10 w 2 = 150 M 3 Qts.

Bailer went to 377 1/2'

10 mia. rock pressure - 20#

24 Hrs. " " - 900#

106 Hrs. " " - 1050#

8-19-63

108 hr. rock pressure 1050#

Blew well 7:00 A.M.

Bailed water and tested gas 12 hrs.

8:00 A.M. 70/10 w 2 = 262 M 1 Qt.

10:00 A.M. 46/10 w 2 = 213 M 1 Qt.

Noon 36/10 w 2 = 188 M 1 Qt.

2:00 P.M. 31/10 w 2 = 175 M 2 Qts.

4:00 P.M. 28/10 w 2 = 166 M 2 Qts.

6:00 P.M. 26/10 w 2 = 160 M 3 Pts.

7:00 P.M. 26/10 w 2 = 160 M 2 Qts.

Well shut in 7:14 P.M.

1 Min. 2#

2 " 4

3 " 6

4 " 8

5 " 10

10 " 21

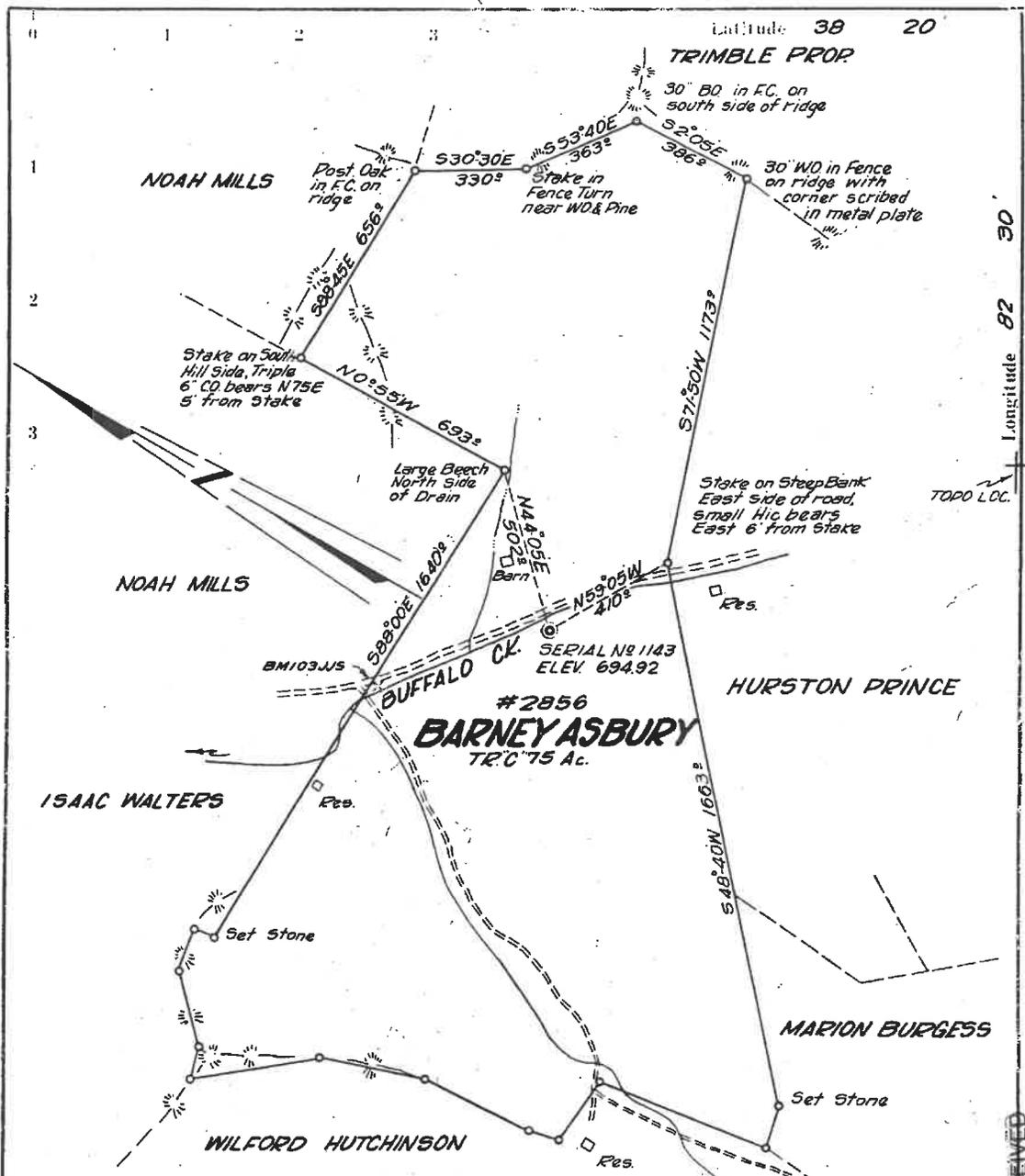
24 Hrs. 950#

48 Hrs. 1050#

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WV Department of
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Acc. within 1 part in 200
 Elev. made from USGS
 BM. 103 JJS 1956, Elev. 682
 Metal Plate in 10' conc. mon.
 between Creek and road
 near the head of Buffalo CK.
 BK 127 P.76

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of W. Va."
Fred Ramsey

Company **OWENS, LIBBEY OWENS GAS DEPT.**
 Address **BOX 4168 CHARLESTON, W. VA.**
 Farm **BARNEY ASBURY**
 Tract **"C"** Acres **75** Lease No. **2956**
 Well (Farm) No. **L** Serial No. **1143**
 Elevation (Spirit Level) **694.92**
 Quadrangle **CEREDO**
 County **WAYNE** District **CEREDO**
 Engineer *Fred Ramsey*
 Engineer's Registration No. **1540**
 File No. _____ Drawing No. _____
 Date **APRIL 8, 1963** Scale **1" = 400 FT.**

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. **WAY-1454**
CORRECTED PERMIT NUMBER
 Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.
 — Denotes one inch spaces on border line of original tracing.

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 Environmental Protection

4709901454	Enervest Operating, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4709901454	Enervest Operating, LLC	2018	0	0	0	0	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
4709901454	Enervest Operating, LLC	2016	0	0	0	0	0	0	0	0	0	0	0	0	0
4709901454	Enervest Operating, LLC	2018	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
4709901454	Original Loc	unidentified coal	Well Record	200	Reasonable	4	Reasonable	695	Ground Level
4709901454	Original Loc	Little Lime	Well Record	1231	Reasonable	29	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Pencil Cave	Well Record	1260	Reasonable	2	Reasonable	695	Ground Level
4709901454	Original Loc	Greenbrier Group	Well Record	1262	Reasonable	153	Reasonable	695	Ground Level
4709901454	Original Loc	Big Lime	Well Record	1262	Reasonable	153	Reasonable	695	Ground Level
4709901454	Original Loc	Big Injun (PriceSeq)	Well Record	1415	Reasonable	0	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Price Fm & equivs	Well Record	1415	Reasonable	676	Reasonable	695	Ground Level
4709901454	Original Loc	Base of Greenbrier	Well Record	1415	Reasonable	0	Reasonable	695	Ground Level
4709901454	Original Loc	Sunbury Sh	Well Record	2041	Qstnble Pick	32	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Berea Ss	Well Record	2073	Reasonable	18	Reasonable	695	Ground Level
4709901454	Original Loc	Bedford	Well Record	2691	Reasonable	44	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Chagrin	Well Record	2277	Qstnble Pick	102	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Huron	Well Record	2379	Qstnble Pick	481	Qstnble Pick	695	Ground Level
4709901454	Original Loc	Big White Slate	Well Record	2860	Reasonable	208	Reasonable	695	Ground Level
4709901454	Original Loc	Rhinestreet Sh	Well Record	3068	Reasonable	32	Reasonable	695	Ground Level
4709901454	Original Loc	'Corniferous'	Well Record	3100	Reasonable	0	Reasonable	695	Ground Level
4709901454	Original Loc	Unconformity	Well Record	3100	Reasonable	0	Reasonable	695	Ground Level
4709901454	Original Loc	Keefer Ss	Well Record	3747	Reasonable	63	Reasonable	695	Ground Level
4709901454	Original Loc	Rose Hill Fm	Well Record	3810	Reasonable	0	Reasonable	695	Ground Level

There is no Wireline (E-Log) data for this well

There is no Plugging data for this well

There is no Sample data for this well

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Office of Oil and Gas

MAR 27 2020

WV Department of
Environmental Protection

WW-4A
Revised 6-07

1) Date: 10/01/2020
2) Operator's Well Number
Asbury, B. #C-1

3) API Well No.: 47 - 099 - 01454

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

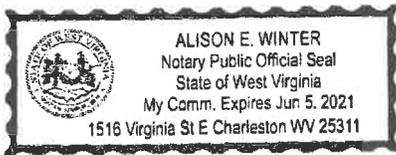
4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Lois Luther Estate</u>	Name _____
Address <u>1677 Buffalo Creek Rd.</u>	Address _____
<u>Huntington, WV 25704</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Pocahontas Land Corporation</u>
_____	Address <u>Three Commercial Pl.</u>
_____	<u>Norfolk, VA 23510</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Terry Urban</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 1207</u>	Name _____
<u>Clendenin, WV 25045</u>	Address _____
Telephone <u>304-549-5915</u>	_____

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.



Well Operator EnerVest Operating LLC
 By: Steve Downey
 Its: Vice President & General Manager
 Address 300 Capitol Street East, Suite 200
Charleston, WV 25301
 Telephone 304-343-5505

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Office of Oil and Gas

Subscribed and sworn before me this 5th day of October, 2020
Alison E. Winter Notary Public

OCT 27 2020

My Commission Expires June 5, 2021

WV Department of
Environmental Protection

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.

47-011-01031

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<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To
Lois Luther Estate
Street and Apt. No., or PO Box No.
1677 Buffalo Creek Road
City, State ZIP+4®
Huntington, WV 25704
PS Form 3800, April 2015 PSN 750-02-000-9047



CERTIFIED MAIL®

Troy Valasek
EnerVest Operating, L.L.C.
1748 Saltwell Road
Dover, OH 44622

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Office of Oil and Gas

OCT 27 2020

WV Department of
Environmental Protection

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lois Luther Estate
1677 Buffalo Creek Road
Huntington, WV 25704



9590 9402 5428 9189 4795 27

2. Article Number (Transfer from service label)

7029 1640 0001 4233 4304

PS Form 3811, July 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

- A. Signature Agent
- B. Received by (Printed Name) Addressee
- C. Date of Delivery
- D. Is delivery address different from item 1? Yes No
If yes, either delivery address below.

3. Service Type

- Adult Signature Restricted Delivery
- Certified Mail
- Certified Mail Restricted Delivery
- Delivery Point Restricted Delivery
- Registered Mail
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation
- Signature Confirmation Restricted Delivery
- Priority Mail Express
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation
- Signature Confirmation Restricted Delivery

Domestic Return Receipt



ENERVEST

ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

October 13, 2020

VIA USPS CERTIFIED MAIL

Lois Luther Estate
1677 Buffalo Creek Road
Huntington, WV 25704

RE: Plugging Permit Asbury, B. #C-1 Well
API# 47-099-01454
Ceredo District, Wayne County, WV

Dear Surface Owner:

Pursuant to Chapter 22 of the West Virginia Code, please find enclosed copies of the following documents relating to the proposed plugging of the subject well:

- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Surface Owner Waiver (2 copies)

This application is being filed by EnerVest Operating, L.L.C. ("EnerVest") with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the Surface Owner Waiver and return one copy to our office, in the self-addressed, pre-paid envelope that enclosed with this letter.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purposes of filing comments and obtaining additional information is as follows:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

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WV Department of
Environmental Protection

47-099-01454P



ENERVEST

ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.

Troy Valasek
Senior Landman

Enclosures

cc: File

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Office of Oil and Gas

OCT 27 2020

WV Department of
Environmental Protection

7079 3640 0001 4233 4304

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<input type="checkbox"/> Adult Signature Required	\$ _____
<input type="checkbox"/> Adult Signature Restricted Delivery	\$ _____

Postage \$ _____

Total Postage and Fees \$ _____

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Lois Luther Estate
 Street and Apt. No., or PO Box No.
1677 Buffalo Creek Road
 City, State, ZIP+4®
Huntington, WV 25704

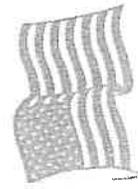
Postmark Here
OCT 13 2020

DOVER, OH 44622

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

47-099-0145 TP

UNITED STATES POSTAGE
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0007191730 OCT 13 2020
MAILED FROM ZIP CODE 44622



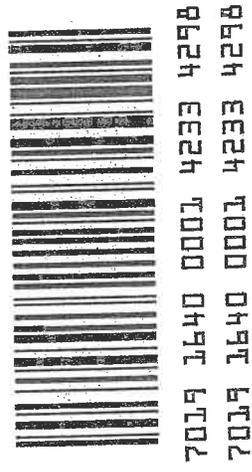
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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$
Postage	\$
Total Postage and Fees	\$

Sent To
Pocahontas Land Corporation
Street and Apt. No., or PO Box No.
Three Commercial Pl.
City, State, ZIP+4®
Norfolk, VA 23510
PS Form 3800, April 2015 PSN 7530-02-000-9047 See F



9624 3324 1000 049T 6T02
9624 3324 1000 049T 6T02

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Pocahontas Land Corporation
Three Commercial Pl.
Norfolk, VA 23510



9590 9402 5428 9189 4795 10

2. Article Number (Transfer from service label)
7019 1640 0001 4233 4298

PS Form 3811, July 2015 PSN 7530-02-000-9059

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

B. Received by (Printed Name) Agent
 Addressee

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
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 - Collect on Delivery
 - Collect on Delivery, Restricted Delivery
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 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
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Domestic Return Receipt

Troy Valasek
EnerVest Operating
1748 Saltwell Road
Dover, OH 44622

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OCT 27 2020

WV Department of
Environmental Protection



ENERVEST

ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

October 13, 2020

VIA USPS CERTIFIED MAILPocahontas Land Corporation
Three Commercial Pl.
Norfolk, VA 23510RE: Plugging Permit Asbury, B. #C-1 Well
API# 47-099-01454
Ceredo District, Wayne County, WV

Dear Coal Owner:

Pursuant to Chapter 22 of the West Virginia Code, please find enclosed copies of the following documents relating to the proposed plugging of the subject well:

- Form WW-4A Notice of Application to Plug and Abandon a Well
- Form WW-4B Application for a Permit to Plug and Abandon
- Form WW-7 Well Location Form: GPS
- Form WW-9 Construction and Reclamation Plan and Site Registration Application
- Coal Owner Waiver (2 copies)

This application is being filed by EnerVest Operating, L.L.C. ("EnerVest") with the Administrator of the Office of Oil and Gas of the West Virginia Department of Environmental Protection. If you have no objections to the proposed process for the plugging of this well, please sign the Voluntary Statement of No Objection on the Surface Owner Waiver and return one copy to our office, in the self-addressed, pre-paid envelope that enclosed with this letter.

Comments as to the location construction or the proposed well work may, pursuant to West Virginia Code, be filed by you with the Administrator within five (5) days after the Application is filed by EnerVest. The address of the Administrator for the purposes of filing comments and obtaining additional information is as follows:

Permit Administrator
West Virginia Division of Environmental Protection
Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304

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ENERVEST OPERATING, L.L.C.

1748 Saltwell Road, Dover, Ohio 44622
Phone: (330) 602-5551

Persons who may file such comments are: (i) the owners of record of the surface of the tract on which the well is or is to be located, and (ii) the owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if such tract is to be utilized for road or other land disturbance described in the Erosion and Sediment Control Plan referred to above; and (iii) except as and when not required by the laws of West Virginia and the rules of the West Virginia Department of Mines, any coal operator operating coal seams beneath the oil and gas leasehold upon which said well is or is to be located as well as the owner(s) and lessee(s), if any of such coal seams.

Sincerely,
EnerVest Operating, L.L.C.

Troy Valasek
Senior Landman

Enclosures

cc: File

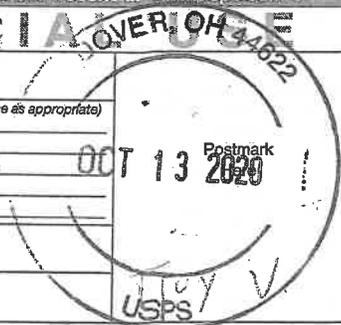
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U.S. Postal Service™ CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com	
OFFICIAL OVERLOOK	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	\$
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<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	\$
Total Postage and Fees	\$
Sent To Pocahontas Land Corporation Street and Apt. No., or PO Box No. Three Commercial Pl. City, State, ZIP+4® Norfolk, VA 23510	
PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



47-099-01454 P

WW-9
(5/16)

API Number 47 - 099 _01454
Operator's Well No. _____

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

Operator Name EnerVest Operating LLC OP Code 30-9999

Watershed (HUC 10) Big Harts Creek - Guyandotte River Quadrangle Ceredo

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: _____

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-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 offsite)

Will closed loop system be used? If so, describe: _____

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. _____

-If oil based, what type? Synthetic, petroleum, etc. _____

Additives to be used in drilling medium? _____

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. At discretion of contractor.

-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 Steve M Downey

Company Official (Typed Name) Steve Downey

Company Official Title Vice President and General Manager

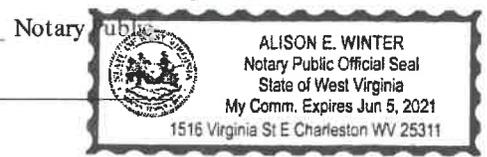
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Subscribed and sworn before me this 5th day of October, 20 20

WV Department of Environmental Protection

Alison E Winter



My commission expires June 5, 2021

Proposed Revegetation Treatment: Acres Disturbed 2.00 Prevegetation pH 6.5

Lime according to PH test Tons/acre or to correct to pH 7.0

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay or Straw 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	25	Orchard Grass	25
Birdsfoot Trefoil	15	Birdsfoot Trefoil	15
Ladino Clover	10	Ladino Clover	10

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: *August Miller*

Comments: _____

Title: *Inspect Red & Gas*

Date: *10-27-20*

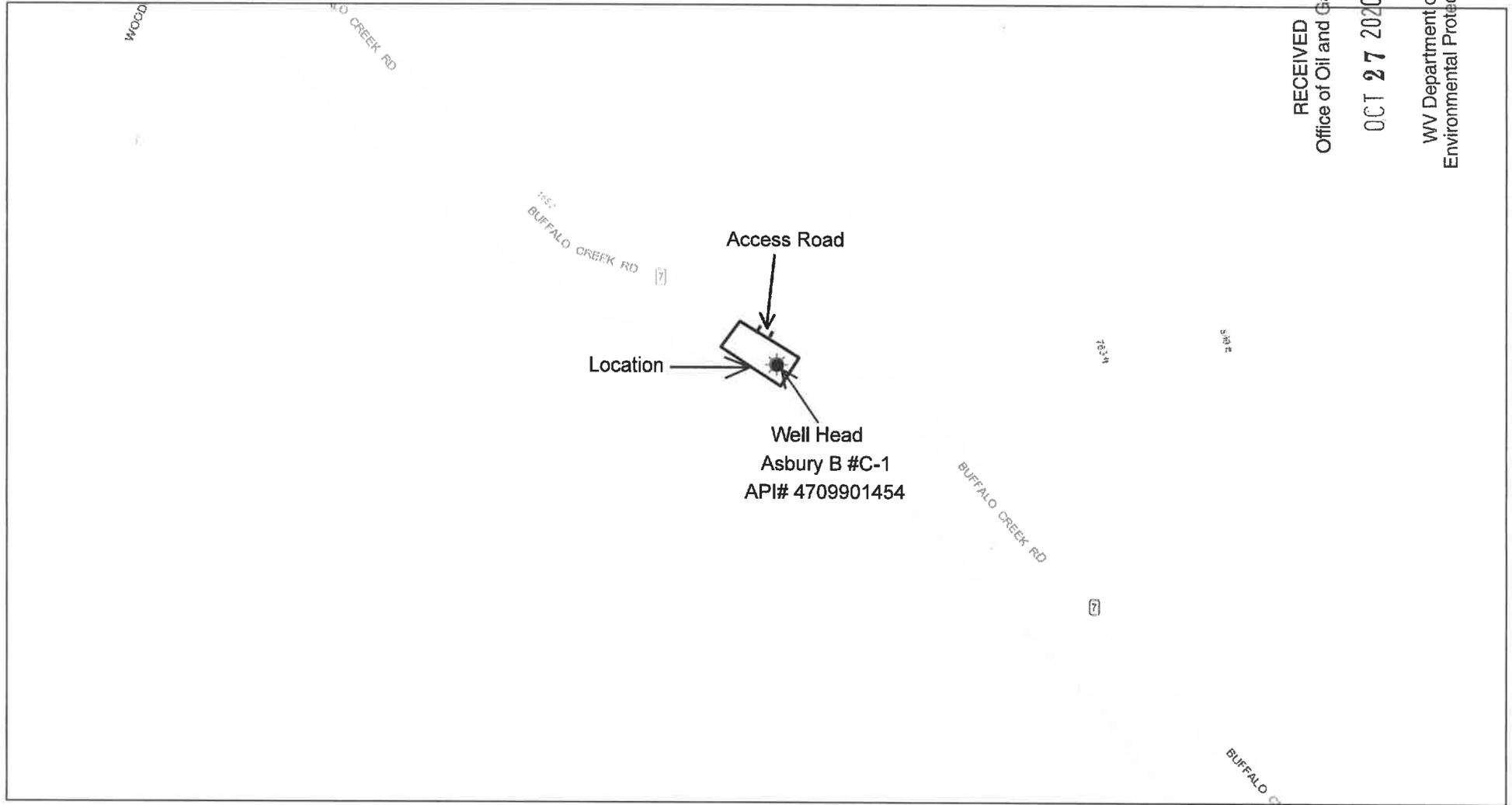
Field Reviewed? Yes No

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ArcGIS Web Map

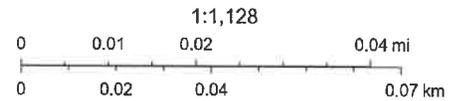


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Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
GROUNDWATER PROTECTION PLAN**

Operator Name: EnerVest Operating LLC
Watershed (HUC 10): Big Harts Creek - Guyandotte River Quad: Ceredo
Farm Name: Asbury, Barney

1. List the procedures used for the treatment and discharge of fluids. Include a list of all operations that could contaminate the groundwater.

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal

2. Describe procedures and equipment used to protect groundwater quality from the list of potential contaminant sources above.

Plugging of shallow well. All residual fluids will be captured in portable flowback tanks for proper disposal

3. List the closest water body, distance to closest water body, and distance from closest Well Head Protection Area to the discharge area.

Closest Water Body: Buffalo Creek 50' +

4. Summarize all activities at your facility that are already regulated for groundwater protection.

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

6. Provide a statement that no waste material will be used for deicing or fill material on the property.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

8. Provide provisions and frequency for inspections of all GPP elements and equipment.

Signature: _____

Date: _____

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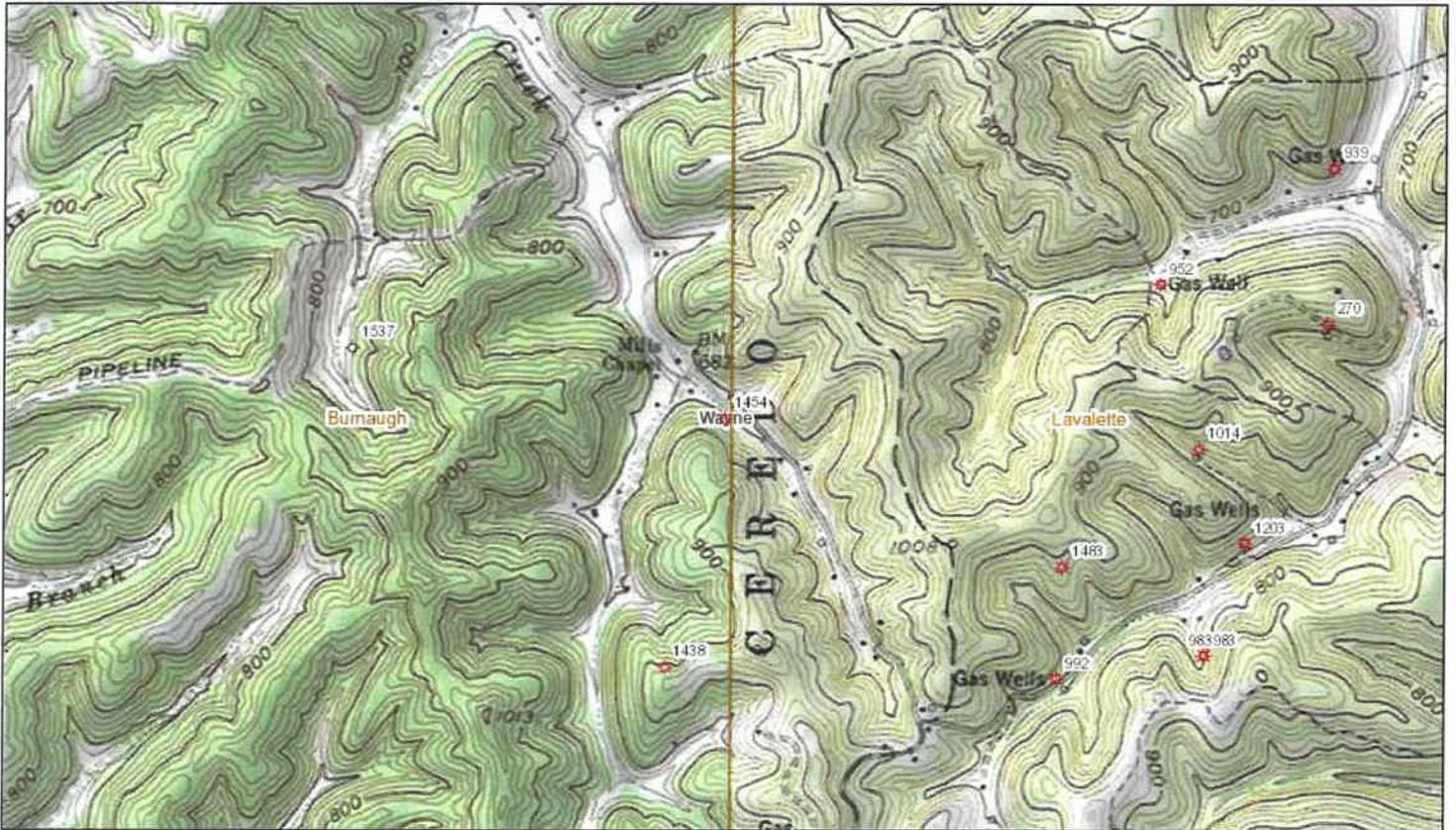
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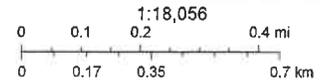
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WV Oil & Gas Wells (WVOG)



5/21/2020, 1:07:39 PM

- | | | | |
|------------------|-------------------------|---------------------------|----------------|
| Individual Wells | Oil and Gas Combination | Other (including Permits) | State Boundary |
| Gas | Dry | Labels (7.5' Quadrangles) | Counties |
| Oil | Service | 7.5' Quadrangles | County Labels |



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47-099-01454 P

WW-7
8-30-06



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

API: 47-099-01454 WELL NO.: Asbury, B. #C-1

FARM NAME: Asbury, Barney

RESPONSIBLE PARTY NAME: Troy M. Valasek

COUNTY: Wayne DISTRICT: Ceredo

QUADRANGLE: Ceredo BURNAUGH

SURFACE OWNER: Lois Luther Estate

ROYALTY OWNER: Deborah Lynn Asbury/Brenda A. Ward

UTM GPS NORTHING: 4238672.6

UTM GPS EASTING: 368811.3 GPS ELEVATION: 694.92

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 ____

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

Sr. Landman

Title

10/13/20
Date

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