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. 1	FORM WW-2B				,	Issued 1	2 0 9 9 1 Page 1 of 1
1	7	b	STATE (OF WEST VI	RGINIA ION OF OIL	C CLASA	12/09/93
			ELL WORK	PERMIT AL	PLICATION	11110 0110	
	DENT. OF CHERG	· ,				2750 K	6) 463
			W.M	. RILLEI	Lumber Co.		tion: <u>1334.1</u>
2	4) Well type:	(a) Oi:	1/	or Ga	s_ <u>X</u> /		
	(b) If Gas: Production_X/ Underground Storage/ Deep/ Shallow_X/						
	5) Proposed T	arget For	mation(s)	: <u>Devoni</u>	an Sha'le		
(6) Proposed T				fact b	(a	35304607
	7) Approximat					(Map WV-12)	1 7000
8	8) Approximat	e salt wa	ter depth	s: <u>769</u> ′	KB (Map WV	-12) 0930	
9	9) Approximat	e coal se	am depths	: Solid	- No Seams	Operated	7
	10) Does land	contain co	oal seams	tributar	y to active	mihe? Ýe	% No_X/
	11) Proposed W	ell Work:	Drill a	and Stimul	ate New We	11	
	12)		CASTNG A	ND TUBING	PROGRAM		
			CABING P	MD IODING			
	mynt	c D	FOTETORMI	ONS	FOOTAGE	INTERVALS	CEMENT
1	TYPE	T.		ONS		INTERVALS	CEMENT
	TYPE	Size	Grade	Weight per ft.	For	Left in	Fill-up (cu.ft.)
	Conductor	T.		Weight	For	Left in	Fill-up
		Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
	Conductor	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.) CTS 38CSRIG-1/1
	Conductor Fresh Water	Size	Grade	Weight per ft.	For drilling	Left in well 30	Fill-up (cu.ft.) CTS 38CSR/G-// 38CSR/H/L2 CTS
	Conductor Fresh Water Coal	Size	Grade LS	Weight per ft. 36.91	For drilling 30	Left in well 30 1285 5814	Fill-up (cu.ft.) CTS 38CSR/G-// CTS AS NEEDED
	Conductor Fresh Water Coal Intermediate Production Tubing	16 8 5/8	Grade LS J55	Weight per ft. 36.91	For drilling 30 1285	Left in well 30	Fill-up (cu.ft.) CTS 38CSR/9-1/2 CTS AS NEEDED SIPHON
	Conductor Fresh Water Coal Intermediate Production	Size 16 8 5/8 5 1/2	Grade LS J55 J55	Weight per ft. 36.91 24.0 15.5	For drilling 30 1285	Left in well 30 1285 5814	Fill-up (cu.ft.) CTS 38CSR/G-// CTS AS NEEDED
	Conductor Fresh Water Coal Intermediate Production Tubing Liners PACKERS: Kind	Size 16 8 5/8 5 1/2 1.9	Grade LS J55 J55	Weight per ft. 36.91 24.0 15.5	For drilling 30 1285	Left in well 30 1285 5814	Fill-up (cu.ft.) CTS 38CSR/9-1/2 CTS AS NEEDED SIPHON
	Conductor Fresh Water Coal Intermediate Production Tubing Liners PACKERS: Kind Size Dept	8 5/8 5 1/2 1.9 1.9 1.9	Grade LS J55 J55 J55	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 1285	Left in well 30 1285 5814 5764	Fill-up (cu.ft.) CTS 38CSR/9-1/2 CTS AS NEEDED SIPHON
	Conductor Fresh Water Coal Intermediate Production Tubing Liners PACKERS: Kind Size Dept	Size 16	Grade LS J55 J55 J55 Jivision	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 1285 5814 -	Left in well 30 1285 5814 5764	Fill-up (cu.ft.) CTS 38CSRIG-1/A CTS AS NEEDED SIPHON 38CSRIG-1/A
	Conductor Fresh Water Coal Intermediate Production Tubing Liners PACKERS: Kind Size Dept	Size 16 8 5/8 5 1/2 1.9	J55 J55 J55 Jivision Well Work	Weight per ft. 36.91 24.0 15.5 2.76 of Oil and Permit	For drilling 30 1285 5814 d Gas Use (Left in well 30 1285 5814 5764	Fill-up (cu.ft.) CTS 38CSRIG-No. CTS AS NEEDED SIPHON 38CSRIG-No. WPCP
	Conductor Fresh Water Coal Intermediate Production Tubing Liners PACKERS: Kind Size Dept	Size 16	Grade LS J55 J55 J55 Jivision	Weight per ft. 36.91 24.0 15.5 2.76	For drilling 30 1285 5814 - d Gas Use G	Left in well 30 1285 5814 5764	Fill-up (cu.ft.) CTS 38CSRIG-1/A CTS AS NEEDED SIPHON 38CSRIG-1/A

Page 1 of 2 NOW 22 1981 20 Operator's well number W.W. Riccer Lumber W.W. Riccer	RECEIVE	
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleatus C. Osborne Address P.O. Box 451 Cocana, WV 24870 (b) Name Predrick A. Lingr Name Address P.O. Box 451 Cocana, WV 24870 (c) Name Oceana, WV 24870 (c) Name Address P.O. Box 151 Cocana, WV 24870 (c) Name Address P.O. Box 151 Cocana, WV 24870 (c) Name Address P.O. Box 151 Cocana, WV 24870 (c) Name Address P.O. Box 151 Cocana, WV 25818 Cocana, WV 25818 Cocana, WV 25818 Telephone (304) - 872-2912 For Section 3(d) of the Coca of West Virginia (see page 2) Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas QR X Included is the information required by Chapter 22B, Article 1, Section 3(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages I through 2 on the above named parties, by: Personal Service (Affidavit attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 information public of however are significant penalties for submitting false information, including the information foliation foliation foliation form and all when the information submitted on this application form and all stachments, and that based on my inquiry of those individuals immediately responsible for obtaining the possibility of fine and im	Page 1 of 2 $\begin{pmatrix} 1 \\ 1 \end{pmatrix}$	Date: November 21, 1991
API Well No: 47 - 109 - 1237 State - Country - Permit STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICS AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleatus C. Osborne. Address P.O. Box 351	Form WW2-A NOV 22 1991 2)	Operator's well number
STATE OF WEST VIRGINIA DEPARTMENT OF EMERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleatus C. Osborne Name N/A Address P.O. Rox 351 Oceana, NV 26870 (b) Name Preferrick A. Lungar Name Georgia-Pacific Corp. Address P.O. Box 250 Address P.O. Box 250 (c) Name Access No. 100 Name Name Georgia-Pacific Corp. Address Name Georgia-Pacific Corp. Address Name Ravi Sales & Processing Co. Address P.O. Box 131 Address P.O. Box 131 Telephone (304) *877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application; 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, 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. By: W. Mark Parks M. Mark Parks M. Marks Parks	(09/87)	W.M. Ritter Lumber Co. #270, Serial #130001
STATE OF WEST VIRGINIA DEPARTMENT OF EMERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleatus C. Osborne Name N/A Address P.O. Rox 351 Oceana, NV 26870 (b) Name Preferrick A. Lungar Name Georgia-Pacific Corp. Address P.O. Box 250 Address P.O. Box 250 (c) Name Access No. 100 Name Name Georgia-Pacific Corp. Address Name Georgia-Pacific Corp. Address Name Ravi Sales & Processing Co. Address P.O. Box 131 Address P.O. Box 131 Telephone (304) *877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application; 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, 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. By: W. Mark Parks M. Mark Parks M. Marks Parks	GEPT. OF EMERCY / 3)	API Well No: 47 - 109 - 123/
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleatus C. Osborne Name N/A Address P.O. Rox 351 Oceana, NW 24870 (b) Name Prederick A. Lugar Name Georgia-Parific Corp. Address P.O. Box 250 (c) Name Address P.O. Box 250 (c) Name Address Name Notary State Name Georgia-Parific Corp. Address Notary State Name Name Georgia-Parific Corp. Address Name Name State Science Science Science Delivery Name Address Name Name State Science Name State Science Science Delivery Name Name Name State Science Name Science Name State Science Name Science Name Name State Science Name Science Name State Science Name State Science Name Science Name Science Name Science Name Science Name Name State Science Name Name State Science Name Name Name Name Name Name Name Nam		State - County - Permit
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT (a) Name Cleatus G. Osborne Address P.O. Box 351 (b) Name Frederick A. Lugar Name Address P.O. Box 250 (c) Name Address Address Name Address P.O. Box 722 To THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OB X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. In the continuing 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 and imprisonment. By: Whath Parks Address Address P.O. Box 391 Address P.O. Box 722 Nateward Personal Service Official Penalty Septimation, Inc. Well Operator Address P.O. Box 391 Address P.O. Box 501 Notary Public Notary Public	THE OF LINES	n trenaties a
NOTICE AND APPLICATION FOR A WELL WORK PERMIT 4) Surface Owner(s) to be served: (a) Name Cleating G. Osborne Address P.O. Rox 351. (b) Name Frederick A. Lugar Address P.O. Rox 250. (c) Name Oceana, WW 26870 Address Coneral Delivery Address P.O. Rox 250. (c) Name Address M. Oceana, WW 26870 Address General Delivery Address Momins, WW 26870 Address General Delivery Address Momins, WW 26898 Name Address F.O. Rox 131. Telephone (304) 577-2912 Address P.O. Rox 722. TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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. By: W. Mark Perks M. Metalla M. Mark Perks M. Metalla M. Mark Perks M. Metalla M. Metal	STATE OF WES	TVICTON OF OIL AND GAS
4) Surface Owner(s) to be served: (a) Name Address Cleatus C. Osborne Address P.O. Box 351 (b) Name Frederick A. Ingar Name Georgia-Pacific Corp. Address P.O. Box 250 Oceans, W. 24870 (c) Name Address P.O. Box 131 Radley, W. 25818 Telephone (304) - 877-2912 To THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas QR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Personal Service of Application attached) There read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application. 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, 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 and imprisonment. Well Operator Ashland Exphrarian, Inc.	DEPARTMENT OF ENERGY, D.	14191016 01 012 111.5 01-5
(a) Name Cleatus C. Osborne Address P.O. Rox 351 Oceana, W 24870 (b) Name Frederick A. Lugar Address P.O. Rox 250 Oceana, W 24870 (c) Name Address P.O. Rox 250 Oceana, W 24870 (c) Name Address P.O. Rox 131 Frederick A. Lugar Wyoming, W 24898 Name Address General Delivery Wyoming, W 24898 Name Ravl Sales & Processing Co. Address P.O. Rox 122 Matewan, W 25678 To THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas QR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland KY 41114 Telephone 606-129-5989 Subscribed and sworn before me this 21st day of November 1991	NOTICE AND APPLICATION 1	FOR A WELL WORK PERMIT
(a) Name Cleatus C. Osborne Address P.O. Box 351 Oceana, W 24870. (b) Name Frederick A. Lugar Address P.O. Box 250 Oceana, W 24870. (c) Name Address P.O. Rox 250 Oceana, W 24870. (c) Name Address P.O. Box 131 Bradley, W 25818 ATT-2912 Markewan, W 25678 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas QR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Experimentation, Inc. Well Operator Ashland Experimentation, Inc. Well Operator Ashland Experimentation, Inc. Mellonger Markey Public Ashland M. A. Amaka Notary Public	A) corfoco Owner(s) to be served:	5) (a) Coal Operator:
Address P.O. Rox 351 Oceana, WV 24870 (b) Name Frederick A. Lugar Address P.O. Rox 250. Oceana, WV 24870 Name General Delivery Wvoming, WV 24898 Name Address Frederick A. Lugar Name Rawl Sales & Processing Co. Address Bradley, WV 25818 Telephone (304) - 877-2912 To THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information well operator Ashland Exphrantion, Inc. Well Operator Ash		
(b) Name Frederick A, Lugar Address P.O. Rox 250 (c) Name Address P.O. Rox 250 (c) Name Address P.O. Rox 250 (d) Name Address P.O. Rox 250 (e) Name Address Rodney Dillon Address P.O. Box 131 P.O. Box 131 Pradley, WV 25818 Telephone (304) 877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the load of West Virginia (see page 2) I certify that as required under Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code laws served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Cartified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exphragion, Inc. Well Ope		Address
(b) Name Frederick A. Lugar P.O. Box 250 Oceana, WV 24870 Name Address Oceana, WV 24870 Name Address P.O. Box 131 Oceana, WV 25818 Oceana, WV 25870 Oceana, WV		
Address P.O. Rox 250 Name Central Paintern		(b) Coal Owner(s) with Declaration
Cocana, WV 24870 Address General Delivery Wyoming, WV 24898 Name Address Name Address Name Address Name Address Name Address Name Rawl Sales & Processing Co. Name Rawl Sales & Processing Co. Address P.O. Box 131 Name Rawl Sales & Processing Co. Address P.O. Box 722 Matewan, WV 25678 Matewan, W		Name <u>Georgia-Pacific Corp</u> .
(c) Name Address Name Address Name Address Name Address		Address General Delivery
Address Address Address Address Address (c) Coal Lessee with Declaration Name Rawl Sales & Processing Co. Address P.O. Box 131 Bradley, IW 25818 Telephone (304) - 877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Expharation, Inc. Well Operator Ashland Exp. Ashland Exp. Ashland Exp. Notary Public	(c) Name	Wyoming, WV 24898
(c) Coal Lessee with Declaration Address P.O. Box 131 Fradley, WV 25818 Telephone (304) - 877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages I through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exploration, Inc. Ashland KY 41114 Telephone 606-329-5889 Subscribed and sworn before me this 21st day of November , 1991	Address	Name
Address P.O. Box 131 Name Raw! Sales & Frocessing Co. Telephone (304) - 877-2912 Address P.O. Box 722 Natewan, WV 25678 To THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exploration, Inc. Well Operators Ashland Exploration, Inc. Well Operations Manager Address P.O. Box 391 Ashland, KY 41114 Telephone 606-329-5389 Subscribed and sworn before me this 21st day of November , 1991		Address
Address P.O. Box 131 Bradley, WV 25818 Telephone (304) - 877-2912 TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exampration, Inc. Well		(a) Coal Lossee with Declaration
To the person(s) Named Above Take Notice that: Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Expharation, Inc. Well Operator Ashland Expharation And Inc. Operations Manager Address P.O. Box 391 Ashland	6) Inspector Rodney Dillon	Name Rawl Sales & Processing Co.
To the person(s) named above take notice that:	Address <u>P.O. Box 131</u>	Address P.O. Box 722
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exphration, Inc. Well Operator Ashland KY 4114 Telephone 606-329-5989 Subscribed and sworn before me this 21st day of November , 1991	Bradley, WV 25818	Matewan, WV 25678
Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2) I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _2 on the above named parties, by: Personal Service (Affidavit attached) X Certified Mail (Postmarked postal receipt attached) Publication (Notice of Publication attached) I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. 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, 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 and imprisonment. Well Operator Ashland Exphantation, Inc. Well Operator Ashland Exphantation, Inc. Well Operator Ashland KY 41114 Telephone 606-329-5989 Subscribed and sworn before me this 21st day of November , 1991	Telephone (304) - 077-2912	
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, 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 and imprisonment. Well Operator Ashland Exploration, Inc. By: W. Mark Parks W. W. Mark Parks W. M.	Contracts by which I hold the right to X Included is the information requi Section 8(d) of the Code of West Virgi I certify that as required under I have served copies of this notice an accompanying documents pages 1 through Personal Service (Affidavit X Certified Mail (Postmarked pages)	red by Chapter 22B, Article 1, nia (see page 2) Chapter 22B of the West Virginia Code ad application, a location plat, and a 2 on the above named parties, by: attached) costal receipt attached)
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Well Operator Ashland Exploration, Inc. By: W. Mark Parks	T am aware that there are signif:	cant penaities for Submitting large
Subscribed and sworn before me this 21st day of November Notary Public	information, including the possibility	y or rine and imprisonment.
Its: Operations Manager Address P.O. Box 391 Ashland, KY 41114 Telephone 606-329-5989 Subscribed and sworn before me this 21st day of November , 1991 Notary Public	Well Operator	Ashland Exploration, Inc.
Address P.O. Box 391 Ashland, KY 41114 Telephone 606-329-5989 Subscribed and sworn before me this 21st day of November , 1991 Notary Public		
Subscribed and sworn before me this 21st day of November , 1991 Notary Public		
Subscribed and sworn before me this 21st day of November , 1991 Notary Public	Addiess F.O	land, KY 41114
Subscribed and sworn before me this 21st day of November , 1991 Notary Public	Telephone	606-329-5989
Motary Public	Subscribed and sworn before me this 2	lst day of November , 1991
1/MA Mi Isolati	1/. R	
Warning in avrivas Named 23 1994	Maki M. Norta	Notary Public
WA COMMISSION EXPLIES. MOVEMBER 73: 1334	My commission expires November 23, 199	4

09-Dec-91 API # 47-109-01237

JUN 0 4

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

Reviewed_	TM6	
Recorded_		

Well Operator's Report of Well Work

Hoviewed
Recorded

Farm name: OSBORNE, CLEATUS C. ETAL

Operator Well No.: 270-S-136861

LOCATION:

Elevation: 1334.06

OCEANA

Quadrangle: MATHENY

District:

Latitude: 12200 Feet South of 37 Deg. 42 Min. 30 Sec.

County: WYOMING

Longitude: 8400 Feet West of 81

Deg. 35 Min. 0 Sec.

Company:

ASHLAND EXPLORATION, INC.

P. O. BOX 391, A1-6

ASHLAND, KY 41114-0391

Agent:

B. E. WIDENER

Inspector: RODNEY G. DILLON

Permit Issued:

12/09/91

02/07/92

Well work Commenced: Well work Completed:

05/26/92

Verbal Plugging:

Permission granted on:

Rotary X Cable Rig Total Depth (feet) _____5896

Fresh water depths (ft) 47' damp 1" stream 170', 5" stream @ 260,

<u>6" stream 350'</u>

Salt water depths (ft) None noted Is coal being mined in area (Y/N)? N

Coal Depths (ft): <u>None noted</u>

	·		
Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	47'	47°	17.7
11 3/4"	307'	307'	177
8 5/8"	1288'	1288'	404
5 1/2"	5845'	5845'	989
1.9" @ 1.9" @	5702' 2879'	w/ Pkr 0 KB	2917'KB

OPEN FLOW DATA

Producing formation <u>Devonian Shale/Gordon</u> Pay zone depth (ft) <u>3438-5775</u> Gas: Initial open flow <u>-0-</u> MCF/d Oil: Initial open flow <u>---</u> Bb1/d Final open flow <u>** 873 MCF/d</u> Final open flow <u>---- Bb1/d</u> Time of open flow between initial and final tests Static rock pressure _____800# psig (surface pressure) after _____72 Hours

Big Lime Second producing formation Princeton/Ravenscliff Pay zone depth (ft) _____1371-1484 Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d Final open flow ____ Bbl/d Final open flow ____ Bbl/d Final open flow --- Bbl/d Time of open flow between initial and final tests _______3 Static rock Pressure _____480# psig (surface pressure) after ____

ON BACK OF THIS FORM PUT THE FOLLOWING: 1. DETAILS OF PERFORATED INTERVALS, FRACTURING OF STIMULATING, PHYSICAL CHANGE, ETC. 2.) THE WELL LOG WHICH IS A SYSTEMATIC DETIALED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: ASHLAND EXPLORATION, INC.

James L. Stephens, Enq. Tech.

Formation on Rock Type	TOP	BASE
Sand and Shale (Base Lee Fm)	0	1194
Pennington formation	1194	2184
Princeton 1321-1376		
Ravenscliff 1436-1487		
Stray Maxton 1577-1606		
M. Maxton 1881-1927		
L. Maxton 2094-2133		
Little Lime	2184	2261
Big Lime	2261	2674
Borden formation	2674	3233
Weir 2791-2898		J233
Sunbury Shale	3233	3251
Berea	3251	3288
Devonian Shale	3288	5875
Gordon 3425-3445		30, 3
Onondaga Ls.	5875	TD

Well Treatment

Perf Rhinestreet Shale 22H/5373-5775. N_2 frac using 500 gal $7\frac{1}{2}$ % inh fe acid, 796,000 scf N_2 @ 95,400 scf/min. BD 3411#, MTP 3722#, ATP 3685# and ISIP 2646#.

Perf L. Huron 18H/4800-5025. N_2 frac using 500 gal $7\frac{1}{2}$ % inh fe acid, 793,000 scf N_2 @ 90,165 scf/min. BD @ 3886#, ATP 3592#, ISIP 2589#.

Perf U. Shale 20H/4357-4569. N_2 frac using 500 gal $7\frac{1}{2}$ % fe acid, 800,000 scf N_2 @ 97,768 scf/min. BD @ 3428#, MTP 4000#, ATP 3440# and ISIP 2467#.

Perf Chagrin and Gordon 20H/3438-3880. N_2 frac using 500 gal $7\frac{1}{2}$ % fe acid, 794,000 scf N_2 @ 85,000 scf/min. BD @ 2638#, MTP 3206#, ATP 3097 and ISIP 1733.

Perf Weir 15H/2880-2884. 75 quality foam frac Weir using 286,000 scf N_2 @ 6000 scf/min w/ 90 quality prepad and 55,600# 20/40 sand. BD @ 1348#, MTP 1591#, ATP 1439# @ 20 BPM foam rate and ISIP 1316#.

Perf Big Lime 12H/2385-2625. Foam acidize using 500 gal 15% fe acid, 242,000 scf $\rm N_2$ @ 5000 scf/min. and 8000 gal 27% inh fe acid @ 5 bpm acid rate. BD @ 1310#, ATP 1150#, MTP 1310# and ISIP 1180#.

Perf Princeton/Ravenscliff 12H/1371-1484. 75 quality foam frac using 1000 gal 15% fe acid, 33,000 scf $\rm N_2$ @ 10,000 scf/min. BD @ 2700#, MTP 4024#, and ISIP 4000# w/ perf balls frac using 453,000 scf $\rm N_2$ @ 12000 scf/min, 66,000 # 20/40 sand. 20# gel system ATP 2800# @ 32 bpm, MTP 3560# and ISIP 2850#.