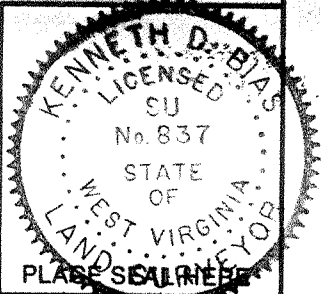


LEG.	CALL	LEG.	CALL	LEG.	CALL	LEG.	CALL
A	S 20° 30' W - 778.9'	G	N 39° 15' W - 129.6'	M	N 37° 45' W - 177.9'	S	S 70° 00' W - 142.0'
B	N 74° 15' W - 150.7'	H	N 58° 30' W - 89.9'	N	N 65° 45' W - 298.3'	T	N 23° 10' W - 195.6'
C	N 58° 30' W - 75.4'	I	N 76° 10' W - 162.7'	O	N 37° 00' W - 195.0'	U	N 14° 45' W - 193.6'
D	N 61° 30' W - 173.7'	J	N 72° 00' W - 149.2'	P	N 62° 30' W - 281.0'	V	N 51° 20' W - 236.0'
E	N 68° 00' W - 100.9'	K	N 78° 15' W - 163.0'	Q	N 77° 00' W - 229.3'	W	N 33° 00' W - 127.7'
F	N 76° 00' W - 191.4'	L	N 42° 30' W - 331.0'	R	S 87° 00' W - 158.0'	X	N 28° 45' W - 357.6'

COAL LESSEE: COMMONWEALTH RESOURCES INC.  
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:2500  
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM.  
U - 191 EL. 2276.183

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) Kenneth D. Dias  
 R.P.E. \_\_\_\_\_ L.L.S. 837-SU



**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE APRIL 30, 19 91  
 OPERATOR'S WELL NO. FIRST NATIONAL BANK OF BLUEFIELD A-2  
 API WELL NO. 47-047-1125  
 STATE 47 COUNTY 047 PERMIT 1125

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 2154.65' WATER SHED BRADSHAW CREEK - TUG RIVER  
 DISTRICT SANDY RIVER COUNTY McDOWELL  
 QUADRANGLE BRADSHAW Iaeger C

SURFACE OWNER ALONZO VANCE ACREAGE 24.32  
 OIL & GAS ROYALTY OWNER FIRST NATIONAL BANK OF BLUEFIELD LEASE ACREAGE 149.1 PART OF 321.75  
 LEASE NO. 080487

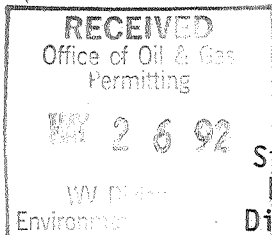
PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON  CLEAN OUT AND REPLUG   
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR ASHLAND EXPLORATION INC. 43 DESIGNATED AGENT FORREST BURKETT  
 ADDRESS P.O. BOX 391 ASHLAND, KY. 41114 ADDRESS P.O. BOX 379 BRENTON, WV 24818

DEEP WELL 6-6 Rockridge (350)

JUN 17 1991

WR-35



10-Jun-91  
API # 47-47-01125

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas  
Well Operator's Report of Well Work

Reviewed TMG  
Recorded \_\_\_\_\_

Farm name: VANCE, ALONZO

Operator Well No.: A-2 SN-135051

LOCATION: Elevation: 2154.65  
District: SANDY RIVER  
Latitude: 13625 Feet South of 37  
Longitude: 10950 Feet West of 81

Quadrangle: BRADSHAW  
County: MCDOWELL  
Deg. 22 Min. 30 Sec.  
Deg. 50 Min. 0 Sec.

Company: ASHLAND EXPLORATION, INC.  
P. O. BOX 391, A1-6  
ASHLAND, KY 41114-0391

Agent: FORREST BURKETT

Inspector: TIM BENNETT

Permit Issued: 06/10/91  
Well work Commenced: 02/29/92  
Well work Completed: 05/16/92  
Verbal Plugging: \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 6945  
Fresh water depths (ft) \_\_\_\_\_  
None noted  
Salt water depths (ft) \_\_\_\_\_  
Damp @ 1660

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 40-43, 330-333, 449-451, 543-546, 555-559, 629-632, 667-671, 717-722, 971-972, 1055-1057, 1198-1200, 1224-1226, 1482-1484, 1734-1736, 1769-1771

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	35'	35'	17.7
11 3/4"	354'	354'	288
8 5/8"	2177'	2177'	866
5 1/2"	6915'	6915'	1104
1.9" @ 1.9" @	6875' 4951'	w/ Pkr @	5041'

OPEN FLOW DATA

Producing formation Dev. Shale Pay zone depth (ft) 5985-6854  
Gas: Initial open flow -0- MCF/d Oil: Initial open flow -0- Bbl/d  
Final open flow \* 427 MCF/d Final open flow -0- Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock pressure 815# psig (surface pressure) after 72 Hours

Berea 4937-4960  
Big Lime 3736-4161  
Second producing formation Ravenscliff Pay zone depth (ft) 2578-2588

Gas: Initial open flow 188 MCF/d Oil: Initial open flow --- Bbl/d  
Final open flow \* 1275 MCF/d Final open flow --- Bbl/d  
Time of open flow between initial and final tests 3 Hours  
Static rock Pressure 585# psig (surface pressure) after 72 Hours

NOTE: 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

By: James L. Stephens James L. Stephens, Eng. Tech.  
Date: 5/22/92

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee Fm)	0	2174
Pennington formation		
Ravenscliff 2574-2593		
Avis Ls 2682-2733		
U. Maxton 2810-2848		
M. Maxton 3124-3238		
L. Maxton 3346-3398		
Little Lime	3580	3668
Big Lime	3712	4252
Berea	4904	4949
Devonian Shale	4949	6928
Onondaga Ls	6928	6945
LTD 6948		
DTD 6945		

11 $\frac{3}{4}$ " and 8 $\frac{5}{8}$ " csg cmt'd to surface on primary job.

### Well Treatment

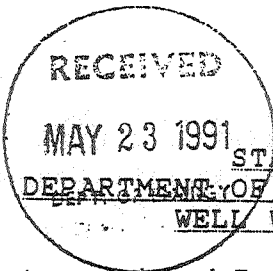
Perf Rhinestreet 20H/6577-6854. N<sub>2</sub> frac using 500 gal 7 $\frac{1}{2}$ % fe acid, 806,000 scf N<sub>2</sub> @ 80,000 scf/min. BD 4198#, ATP 3612#, MTP 4856#, ISIP 3416# and 15 min 2245.

Perf Huron 19H/5985-6351. N<sub>2</sub> frac using 500 gal 7 $\frac{1}{2}$ % fe acid, 799,000 scf N<sub>2</sub> @ 72600 scf/min. BD @ 4270#, ATP 4005, MTP 4573# and ISIP 3014.

Perf Berea 25H/4937-4960. 65 quality foam frac using 500 gal 30% fe acid, 78,300# 20/40 sand, 496,000 scf N<sub>2</sub> @ 10,550 scf/min. BD @ 1328#, ATP 1218# @ 25 bpm foam rate, MTP 2194# and ISIP 1932#.

Perf Big Lime 20H/3736-4161. 65Q foam acidize using 500 gal 15% fe acid, 7500 gal 28% inh fe acid and 275,000 scf N<sub>2</sub> @ 7000 scf/min. BD @ 1910#, ATP 1950# @ 7 bpm acid rate, MTP 2540#.

Perf Ravenscliff 25H/2578-2588. 65 quality foam frac using 500 gal 28% fe acid, 68,000 scf N<sub>2</sub> @ 20/40 sand and 508,500 scf N<sub>2</sub> @ 13,000 scf/min. BD 2650#, ATP 2050# @ 25 bpm foam rate, MTP 2650#, ISIP 1840# and TF 445.



047-1125  
Issued 06/10/91  
Expires 06/10/93

FORM WW-2B

Page 1 of 1

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Ashland Exploration, Inc. <sup>0043</sup> 2750 (6) 261
- 2) Operator's Well Number: First National Bank of Bluefield 3) Elevation: 2,154.6  
A-2
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Devonian Shale <sup>441</sup>
- 6) Proposed Total Depth: 6940 KB feet
- 7) Approximate fresh water strata depths: 1290 KB (map WV-12) <sup>1365'</sup>
- 8) Approximate salt water depths: 1690 KB (map WV-12)
- 9) Approximate coal seam depths: Solid Coal <sup>645' - 655' 1310' - 1315'</sup>
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill & Stimulate New Wells
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"	LS	39.6	30	30	CTS
Fresh Water						20 SR 11.1
Coal						34 SR 11.2
Intermediate	8 5/8"	J55	24.0	2220	2220	CTS
Production	5 1/2"	J55	15.5	6940	6940	38 SR 11.1 As Needed
Tubing	1.9"	J55	2.76		6890	Siphon
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

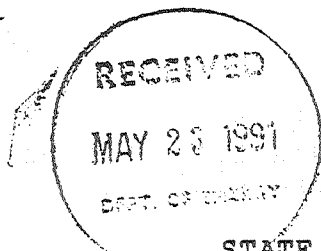
506 218

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond Security Blanket  Agent

(Type)

12306



1) Date: May 20, 1991  
2) Operator's well number First National Bank of Bluefield A-2  
3) API Well No: 47 - 047 - 1125  
State - County - Permit

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 Alonzo Vance  
Address Box 14  
Paintsville, W.V. 24873  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Tim Bennett  
Address Route 2, Box 61-B  
Chapmonville, W.V. 25508  
Telephone (304)- 855 - 7705

5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Randell Jewell  
Address Box 890  
Oakwood, VA 24631  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name Commonwealth Resources, Inc.  
Address Box 890  
Oakwood, VA 24631

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

\_\_\_\_\_ 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 \_\_\_\_\_ on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- 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 \_\_\_\_\_  
By: W. Mark Parks *W. Mark Parks* EXC  
Its: \_\_\_\_\_  
Address \_\_\_\_\_  
Telephone \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

\_\_\_\_\_  
My commission expires \_\_\_\_\_ Notary Public



**Ashland Exploration, Inc.**

SUBSIDIARY OF ASHLAND OIL, INC.

P.O. BOX 391 • ASHLAND, KENTUCKY 41114 • (606) 329-3333

EASTERN REGION

June 10, 1991

RECEIVED  
Department of Energy

JUN 11 1991

Jamie Stevens  
Department of Energy  
Oil & Gas Permitting Section  
1615 Washington Street, East  
Charleston, West Virginia 25311

Re: Application for Permit to Drill  
Dated May 20, 1991  
First National Bank of Bluefield  
Well No. A-2, Serial No. 135051

Dear Mr. Stevens:

The subject application correctly stated that the surface owner at the drill site is Alonzo W. Vance, but incorrectly stated his mailing address, which should be P.O. Box 695, Oakwood, Virginia 24631.

Mr. Vance has been contacted in person, and we have his acquiescence to proceed. Additionally, his notice has this date been re-mailed to the correct address, witness the attached certified mail receipt.

Very truly yours,

ASHLAND EXPLORATION, INC.

*George Gary Corn*  
George Gary Corn, PE

vwd

Attachment