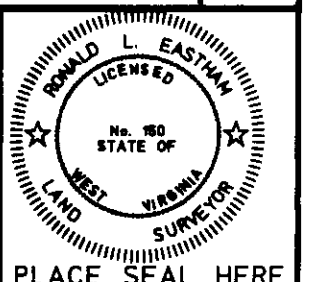


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 2000'  
 MINIMUM DEGREE OF ACCURACY 1: 172362  
 PROVEN SOURCE OF ELEVATION U.S.C.G.S. 'James'  
 Elev. = 2340.85

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 THE LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.  
 (SIGNED) Ronald L. Eastman  
 R.P.E. \_\_\_\_\_ L.L.S. 150



STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION

DATE May 3, 1995  
 OPERATOR'S WELL No. 99, S.N. 199311  
 API WELL NO. 47-081-01002

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 2283.75 WATER SHED Upper Big Branch of Marsh Fork of Coal River  
 DISTRICT Marsh Fork COUNTY Raleigh  
 QUADRANGLE Whiteville Bald Knob GC

SURFACE OWNER Rowland Land Company, Ltd. ACREAGE 1245255 (Tr. 380)  
 OIL & GAS ROYALTY OWNER Rowland Land Company, Ltd. LEASE ACREAGE 47340.87  
 LEASE NO. 80594

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 Devonian shale ESTIMATED DEPTH 6,000' KB

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT A. Ray Chandler  
 ADDRESS P.O. Box 391 ADDRESS Rt. 6 P.O. Box 178  
Ashland, Ky. 41114 6-6 247 Charleston, W.V. 25311

JUN 28 1995

FORM W.V.-5

COUNTY NAME PERMIT

MA 120 1996

Permitting  
Office of Oil & Gas

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

01-Jun-95  
API #47-081-01002

Well Operator's Report of Well Work

Farm Name: ROWLAND MANAGEMENT CORP. Operator Well No.: Rowland #99  
Location: Elevation: 2,283.75 Quadrangle: WHITESVILLE  
District: MARSH FORK County: RALEIGH  
Latitude: 3380 Feet South of 37 Deg. 55 Min. Sec.  
Longitude: 80 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.  
P.O. BOX 391, OS-2  
ASHLAND, KY 41114-0391

Agent: B. E. Widener

Inspector: RODNEY DILLON

Permit Issued: 06-01-95  
Well Work Commenced: 11-29-95  
Well Work Completed: 2-21-96

Verbal Plugging \_\_\_\_\_

Permission granted on: \_\_\_\_\_

Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_

Total Depth (feet) 5995' KB

Fresh water depths (ft) 475'

Salt water depths (ft) 2113'

Is coal being mined in area (Y/N)? N

Coal Depths (ft): None Reported

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 13 3/4"	20'	20'	5.90
7"	1444'	1444'	312.70
4 1/2"	5980'	5980'	236

OPEN FLOW DATA

Lower Huron 5261-5910  
 Producing formation Upper Devonian Shale Pay zone depth (ft) 4351-4987  
 Gas: Initial open flow 221 Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow 187 Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static Rock Pressure 620 psig (surface pressure) after 144 Hours

Second Producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
 Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
 Final open flow \_\_\_\_\_ Mcf/d Final open flow \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests \_\_\_\_\_ Hours  
 Static Rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

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

For: Ashland Exploration, Inc.

By: Scott A. Arnold Scott A. Arnold, Asst. Eng.  
Date: 3/21/96





Log Tops (KB):

1656-2370	Base/Lee Formation
2370-3267	Pennington
2448-2501	Princeton
2561-2617	Ravencliff
2734-2766	Avis Lime
2882-2918	M. Maxton
3203-3234	L. Maxton
3267-3356	Little Lime
3356-3677	Big Lime
3677-4122	Borden
3761-3790	M. Weir
3889-3938	L. Weir
4122-4144	Sunbury Shale
4144-4154	Berea
4154-TD	Devonian Shale
4154-5272	Upper Shale/Chagrin
4348-4358	Gordon
5272-5925	L. Huron
5925-TD	Java
5997	LTD

Perf L. Huron w/3-1/8" HCG 0.39 jets w/19H, 5910, 5895, 5887, 5865, 5852, 5831, 5822, 5812; 5801, 5790, 5783, 5746, 5735, 5729, 5693, 5672, 5640, 5620, 5615, 19/19. Dump 250 gal 7.5% HCl-Fe. Frac lower section of L. Huron w/853,000 scf N<sub>2</sub>. BD @ 3186, ATP 3700, ATR 77,500 scf, MTP 3740, ISIP 2258, TF 6 bbl.

Perf upper section of L. Huron w/3-1/8" HCG 0.39 jets under lubricator with 16H/5424, 5401, 5394, 5382, 5376, 5360, 5354, 5347, 5340, 5326, 5312, 5300, 5289, 5283, 5272. Dump 250 gal 7.5% HCl-Fe. Frac upper section of L. Huron with 854,000 scf N<sub>2</sub>. BD @ 3960, ATP 3675, ATR 79,500, MTP 3960, ISIP 2250, TF 7 bbl.

Perf Upper Devonian Shale w/3-1/8" 0.39 jets under lubricator with 23H/4987, 4978, 4972, 4961, 4923, 4886, 4858, 4856, 4798, 4732, 4726, 4710, 4689, 4688, 4629, 4614, 4514, 4443, 4398, 4356, 4353, 4352, 4351. Dump 250 gal 7.5% HCl-Fe. Frac Upper Devonian Shale with 801,000 scf N<sub>2</sub>. BD 4115, ATP 2600, ATR 60,000, MTP 4115, TF 7 bbl.



**RECEIVED**  
WV Division of  
Environmental Protection

MAY 17 1995

- 1) Date: May 12, 1995
- 2) Operator's well number  
Rowland Land Co. 99, Serial #199311
- 3) API Well No: 47 - 081 1002 -  
State - County - Permit

Permitting 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 Rowland Management Corp.  
Address Suite 609, 405 Capitol St.  
Charleston, WV 25301
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:
  - Name None  
Address \_\_\_\_\_
  - (b) Coal Owner (s) with Declaration  
Name Same as No. 4(a)  
Address \_\_\_\_\_
  - Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Coal Lessee with Declaration  
Name Performance Coal Company  
Address P.O. Box 69  
Namoa, WV 25140
- 6) Inspector Rodney Dillon  
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 Exploration, Inc.  
 By: Bradley W. Fischer *[Signature]*  
 Title: Vice President  
 Address P.O. Box 391  
Ashland, KY 41114  
 Telephone 606-329-5450

Subscribed and sworn before me this 12<sup>th</sup> day of May, 1995

*[Signature]* Notary Public  
My commission expires November 23, 1998