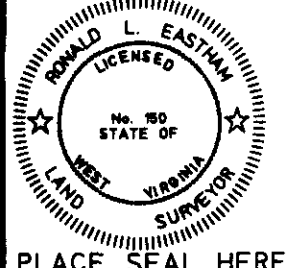


FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:1400
 PROVEN SOURCE OF ELEVATION U.S.C.G.S. 'James'
 Elev. = 2540.85

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 19 95
 OPERATOR'S WELL No. 95, S.N. 199301
 API WELL NO. 47-081-01001

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

LOCATION: ELEVATION 2360.39 WATER SHED Upper Big Branch of Marsh Fork of Coal River
 DISTRICT Marsh Fork COUNTY Raleigh
 QUADRANGLE Whiteville

SURFACE OWNER Rowland Land Company, Ltd. ACREAGE 1,245,255 (Tr. 300)
 OIL & GAS ROYALTY OWNER Rowland Land Company, Ltd. LEASE ACREAGE 47,340.87

PROPOSED WORK: DRILL ___ CONVERT X 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 6,150' 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 6-6247 Charleston, W.V. 25311

JUN 9 1995

FORM WW-6

COUNTY NAME PERMIT



WR-35

OCT 1995

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

Well Operator's Report of Well Work

Permitting Office
Farm Name: ROWLAND MANAGEMENT CORP. Operator Well No.: Rowland #95

Location: Elevation: 2,368.39 Quadrangle: WHITESVILLE
District: MARSH FORK County: RALEIGH
Latitude: 5780 Feet South of 37 Deg. 55 Min. 0 Sec.
Longitude: 1020 Feet West of 81 Deg. 32 Min. 30 Sec.

Company: ASHLAND EXPLORATION, INC.
P.O. BOX 391, AT-9
ASHLAND, KY 41114-0391

Agent: B. E. Widener

Inspector: CRAIG DUCKWORTH
Permit Issued: 06-01-95
Well Work Commenced: 06-17-95
Well Work Completed: 08-25-95
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 6167
Fresh water depths (ft) 496
Salt water depths (ft) 2165, damp

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 13 ³ / ₈ "	32'	32'	3.5
9 ⁵ / ₈ "	133'	133'	41.3
7"	1457'	1457'	271.4
4 1/2"	6093'	6093'	253.7
2 ³ / ₈ "		5979'	

Is coal being mined in area (Y/N)? Y
Coal Depths (ft): 343-47, 364-67, 395-98,
618-21, 783-86, 808-10, 1031-33, 1050-53,
1105-07, 1179-83

L. Huron 5669-5985
U. L. Huron 5161-5479
U.Dev. Shale & Gordon 4436-4950
Weir 3844-3859

OPEN FLOW DATA
Producing formation Big Lime Pay zone depth (ft) 3492-3502
Gas: Initial open flow 2818 MCF/d Oil: Initial open flow --- Bbl/d
Est. Final open flow 2346 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static Rock Pressure 740 psig (surface pressure) after 72 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 FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Ashland Exploration, Inc.

By: Scott A. Arnold Scott A. Arnold, Asst. Eng.
Date: 10-13-95 10-13-95

Sand & Shale	0	-	1727
Lee	1727	-	2444
Pennington	2444	-	3346
Princeton	2530	-	2568
Ravenclyff	2638	-	2686
Avis Lime	2808	-	2841
U. Maxton	2900	-	2929
M. Maxton	2962	-	2994
L. Maxton	3288	-	3314
Little Lime	3346	-	3433
Big Lime	3433	-	3756
Borden	3756	-	4208
M. Weir	3842	-	3897
L. Weir	3970	-	4013
Sunbury	4208	-	4232
Berea	4232	-	4244
Dev. Shale	4244	-	TD
Upper Shale/Chagrin	4244	-	5356
Gordon	4434	-	4444
L. Huron	5356	-	5999
Java	5999	-	TD
DTD	6167		
LTD	6169		

Perf L. Huron w/3 1/8" HCG 1 spf @ 5985, 5970, 5942, 5926, 5905, 5890, 5882, 5880, 5867, 5857, 5815, 5808, 5766, 5744, 5704, 5698, 5677, 5674, 5670, 5669, 20H total. Pump 250 gal 7.9% HCl-Fe acid. N₂ frac L. Huron using 931,900 scf N₂ @ 55,600 scf/m. BD @ 2440, MTP 4068, ATP 3937, ISIP 2310.

Perf U. Lower Huron w/3 1/8" HCG SF 1 spf HCG @ 5479, 5466, 5460, 5442, 5440, 5436, 5427, 5421, 5410, 5380, 5375, 5374, 5367, 5334, 5256, 5197, 5194, 5162, 18H total. Pump 300 gal 7.9% HCl-Fe acid & N₂ frac U. L. Huron w/820,000 scf N₂ @ 81,315 scf/m. BD @ 4398, MTP 4398, ATP 3625, ISIP 2230.

Perf Upper Devonian & Gordon w/3 1/8" HCG SF 1 spf @ 4950, 4948, 4928, 4901, 4893, 4849, 4820, 4797, 4776, 4774, 4716, 4676, 4632, 4601, 4489, 4485, 4439, 4438, 4437, 4436, 20H total. N₂ frac U. Dev. Shale & Gordon w/822,000 scf N₂ @ 88,352 scf/m. BD @ 3125, MTP 4372, ATP 3292, ISIP 1938.

Perf M. Weir w/3 1/8" HCG .34 JRC jets 17H/3844-3852, 5H/3857-3859. Crosslink gel frac M. Weir, 30# gel system, 24,900# 20/40 sand @ 27.2 bbls/min. Ramp 1#-10#/gal. Well screened off @ 10 ppg. BD @ 558, MTP 2558, ATP 750#, ISIP 1676, TF 185 bbl.

Perf Big Lime w/3 1/8" HCG 0.34 JRC jets 9H/3498-3502, 5H/3492-3494, 14H total. Acidize Big Lime w/3000 gal 16.1-20.0% HCl-Fe acid @ 5-7 BPM, displace w/56 bbl wtr. BD @ 1615, MTP 1650, ATP 1500, ISIP 102, 10 min 0, TF 127 bbl.

RECEIVED

WV Division of Environmental Protection

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

MAY 17 1995

43

2750 (2) 677

Well Operator: Ashland Exploration, Inc
Permitting Office of Oil & Gas Rowland Land Company
Operator's Well Number: 95, Serial No. 199301 3) Elevation: 2368.4

Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___
Deep ___ / Shallow X /

Issued 06/01/95
Expires 06/01/97

Proposed Target Formation(s): Devonian Shale ⁴⁴¹

Proposed Total Depth: 6150'KB feet

Approximate fresh water strata depths: 390'

Approximate salt water depths: 1507'

Hernshaw - 908' Depth - Mined Out

Approximate coal seam depths: No. 2 Gas - 1180' Depth - Mined Out

Eagle - 1379' Depth - Mined Out

Does land contain coal seams tributary to active mine? Yes ___ / No X /

Proposed Well Work: Drill and Stimulate New Well

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS	FOOTAGE INTERVALS		CEMENT		
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu.ft.)
Conductor	13 3/8	LS	36	30	30	CTS
Fresh Water						380SR11.3
Coal	7	M-50	17	1440	1440	380SR11.2-2 CTS
Intermediate						380SR11.1
Production	4 1/2	J-55	10.5	6150	6150	AS REQUIRED
Tubing	1.9	J-55	2.76	-	6100	SIPHON
Liners	<i>Liners to be used if open coal seam encountered</i>					

PACKERS: Kind _____
Sizes _____
Depths set _____

506119
27

For Division of Oil and Gas Use Only

Fees(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond SB Blank Agent
(Type)

RECEIVED
WV Division of
Environmental Protection

MAY 17 1995

- 1) Date: May 12, 1995
- 2) Operator's well number
Rowland Land Co. 95, Serial #199301
- 3) API Well No: 47 - 081 1001 -
State - County - Permit

Permitting
Office of Oil & Gas **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]*
It's: Vice President
Address P.O. Box 391
Ashland, KY 41114
Telephone 606-329-5450

Subscribed and sworn before me this 12th day of May, 1995

Trick W. South Notary Public
My commission expires November 23, 1998