

ROWLAND LAND CO. LEASE

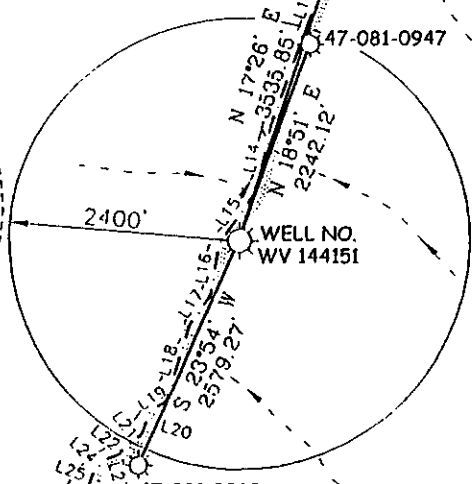
47,069.40 ACRES±

WELL NO. WV 144151

47-081-0959

LINE	BEARING	DISTANCE
L1	S 12°06' E	428.30'
L2	S 48°01' E	336.00'
L3	N 66°22' E	608.80'
L4	S 15°33' E	229.10'
L5	S 03°44' E	320.00'
L6	S 39°26' E	597.00'
L7	S 75°08' E	587.70'
L8	S 63°08' E	284.00'
L9	S 51°08' E	222.10'
L10	S 03°32' E	241.80'
L11	S 47°12' W	417.50'
L12	S 21°40' E	320.10'
L13	S 17°45' W	2255.60'
L14	S 10°19' W	724.30'
L15	S 33°39' W	681.80'
L16	S 07°58' W	562.60'
L17	S 34°10' W	376.60'
L18	S 15°45' W	832.50'
L19	S 55°25' W	212.70'
L20	S 16°17' W	243.30'
L21	S 52°16' W	208.40'
L22	S 37°03' W	115.90'
L23	S 67°51' W	161.70'
L24	S 39°31' W	161.80'
L25	S 17°34' W	129.40'
L26	S 34°23' W	254.70'
L27	S 24°55' E	766.40'
L28	S 14°20' E	230.30'
L29	S 24°44' E	393.20'
L30	S 35°36' E	196.10'
L31	S 06°42' W	260.20'
L32	S 18°31' W	296.10'
L33	S 01°42' W	635.80'
L34	S 21°23' W	1952.70'
L35	S 08°06' W	2120.60'

N/F
WESTERN POCAHONTAS
PROPERTIES, LTD
8,714 ACRES±



ROWLAND LAND
COMPANY, LTD
8,961.37 ACRES±

WELL NO. WV 144151
STATE PLANE COORDINATES
(SOUTH ZONE)
N. 337,289
E. 1,874,883
LAT=(N) 37.925496
LONG=(W) 81.433769

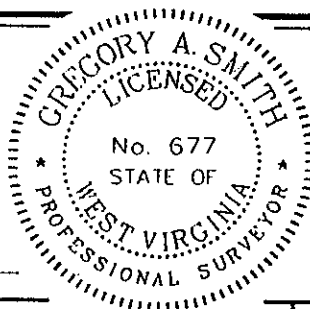
NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 31 AT PAGE 232.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF RALIEGH COUNTY IN AUGUST, 2003.
4. WELL LAT./LONG. ESTABLISHED BY DCPS (SUBMETER MAPPING GRADE).
5. WELL WAS PREVIOUSLY KNOWN AS ROWLAND LAND COMPANY #107.



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 DIVISION OF ENVIRONMENTAL PROTECTION.


P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE AUGUST 27, 20 03
 OPERATORS WELL NO. WV 144151
 API WELL NO. 47-081-0959W
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 5333P144151 (154-01)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 2000'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



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

LOCATION:
 ELEVATION 1,421' WATERSHED RIGHT FORK OF SYCAMORE CREEK
 DISTRICT CLEAR FORK COUNTY RALEIGH QUADRANGLE DOROTHY 7.5'

SURFACE OWNER ROWLAND LAND COMPANY, LTD ACREAGE 8,961.37±
 ROYALTY OWNER ROWLAND LAND COMPANY, LTD LEASE ACREAGE 47,069.40±
 PROPOSED WORK: LEASE NO. 080594

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD
 FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) TEMPORARY PLUG BACK OF SHALE, FRACTURE WEIR THEN COMINGLE PRODUCTION. TARGET FORMATION WEIR
 ESTIMATED DEPTH 2,673'

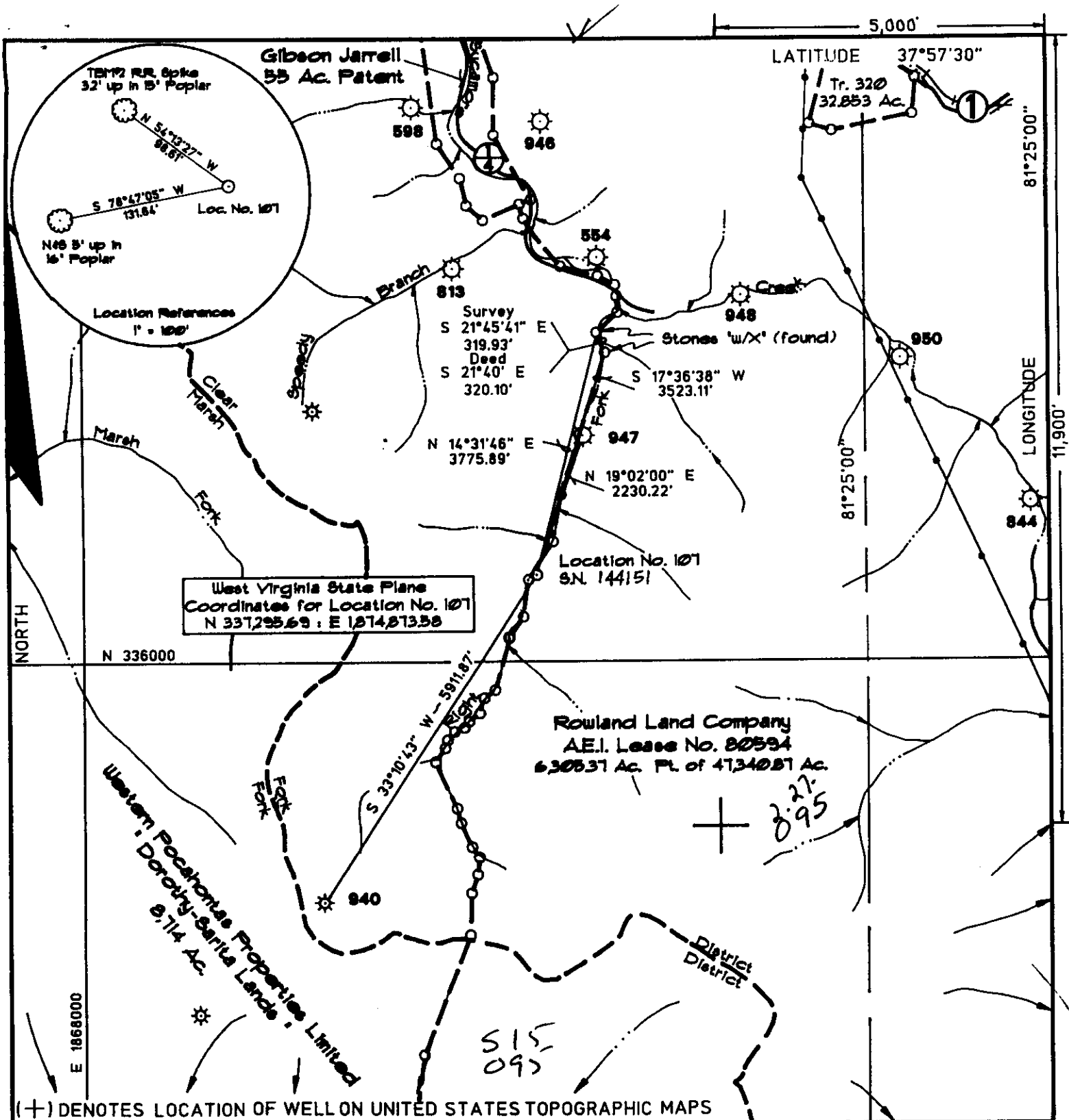
WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT STEPHEN G. PERDUE
 ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE
CHARLESTON, WV 25302 CHARLESTON, WV 25302

19-6 Burnwell/262

SEP 05 2003

COUNTY NAME RALEIGH
PERMIT 0959W





(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1:108466
 PROVEN SOURCE OF ELEVATION U.S.G.S. BM 'UE-1044.1'
Elev. 1044.651

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

RONALD L. EASTMAN
 LICENSED
 No. 00
 STATE OF
 WEST VIRGINIA
 LAND SURVEYOR
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE June 19 19 93
 OPERATOR'S WELL NO. Rowland Land Co. #107
 API WELL NO. SN 144151

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

LOCATION: ELEVATION 142051 WATER SHED Right Fork of Bycamore Creek of Clear Fork of Big Coal River
 DISTRICT Clear Fork COUNTY Raleigh
 QUADRANGLE Dorothy

SURFACE OWNER Rowland Land Company, Ltd. ACREAGE 630537
 OIL & GAS ROYALTY OWNER Rowland Land Company, Ltd. LEASE ACREAGE 4734087

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 INFORMATION Devonian shale ESTIMATED DEPTH 5,100' KB

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT A. Ray Chandler
 ADDRESS P.O. Box 391 43 Ashland, Ky. 41114 ADDRESS Rt. 6 Box 178 6-6 262 Charleston, W.V. 25311

FORM WW-5

COUNTY NAME PERMIT

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

Handwritten initials

Well Operator's Report of Well Work

Farm Name: Rowland Land Company

Operator Well No.: 144151
(Rowland #107)

LOCATION: Elevation: 1421'

Quadrangle: Dorothy

District: Clear Fork

County: Raleigh

				Minutes	Seconds	
Latitude:	11950	Feet South of	37	Deg.	57	30
Longitude:	4950	Feet West of	81	Deg.	25	0

Company: Equitable Production Company
P.O. Box 2347, 1710 Pennsylvania Avenue
Charleston, WV 25328

Agent: Stephen G. Perdue

Inspector: Rick Campbell

Recompletion

Permit issued: 9/15/2003

Well work commenced: 09/23/03

Well work completed: 10/16/03

Verbal Plugging

Permission granted on:

Rotary Rig X Cable Rig _____

Total Depth 4863 feet

Fresh water depths (ft) previously reported

Salt water depths (ft) previously reported

Is coal being mined in area? _____

Coal Depths (ft): previously reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
csg	previously	reported	

RECEIVED
Office of Oil & Gas
Office of Chief
FEB 11 2004
WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation Middle Weir

Gas: Initial open flow	<u>59</u>	MCF/d	Oil: Initial open flow	_____	Bbl/d
Final open flow:	<u>133</u>	MCF/d	Final open flow:	_____	
Time of open flow between initial and final tests			_____ Hours		
Static rock pressure	<u>552</u>	psig (surface pressure) after	_____ 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:	_____	
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.

Kathy Stewart
For: Equitable Production Company

By: Mark A. Chris
Date: 2/6/04

RECEIVED
FEB 19 2004

RAAL 0959 F

**EQUITABLE PRODUCTION COMPANY
WR-35 COMPLETION REPORT - Attachment
Well Treatment Summary**

Well: 144151 Rowland A-107

API# 47-081-00959F

Date	10/09/03					
Type Frac Acid, N ₂ , Foam, Water	Variable Q Foam					
Zone Treated	Middle Weir					
# Perfs From - To:	37 2492' - 2538'					
BD Pressure @ psi	1746					
ATP psi	1755					
Avg. Rate, B=B/M, S= SCF/M	32 B (foam)					
Max. Treat Press psi	1804					
ISIP psi	1218					
Frac Gradient	.54					
10 min S-I Pressure	1097					
Material Volume						
Sand-sks	230					
Water-bbl	148					
SCF N ₂	339,000					
Acid-gal	250 gal 15%					
NOTES:	Job aborted w/ 50% pumped, blender could not control sand conc. Well circ after SD.					

TOP BOTTOM FORMATION REMARKS
Previously reported

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

EXPLORATION
FEB 6 94

Well Operator's Report of Well Work

Farm Name: ROWLAND LAND COMPANY Operator Well No.: 107-S-144151

Location: Elevation: 1,420.51 Quadrangle: DOROTHY

District: CLEAR FORK County: RALEIGH
Latitude: 11900 Feet South of 37 Deg. 57 Min. 30 Sec.
Longitude: 5000 Feet West of 81 Deg. 25 Min. 00 Sec.

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

Agent: B. E. Widener

Inspector: RODNEY DILLON
Permit Issued: 08-02-93
Well Work Commenced: 11-18-93
Well Work Completed: 02-11-94
Verbal Plugging
Permission granted on:
Rotary X Cable _____ Rig
Total Depth (feet) 4863
Fresh water depths (ft) 3" stream @ 130'
5-6" stream @ 360'
Salt water depths (ft) None Noted

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 20"	32'	32'	Driven
16"	77'	77'	24
8 5/8"	1156'	1156'	516
4 1/2"	4858'	4858'	495
2 3/8" @ 4667'			

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None Noted

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 3752-4742
Gordon 3061-3171
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow -- Bbl/d
 Final open flow 960 MCF/d Final open flow -- Bbl/d
 Time of open flow between initial and final tests 3 Hours
 Static Rock Pressure 540 psig (surface pressure) after 24 Hours

Second producing formation None 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

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For: Ashland Exploration, Inc.

By: James L. Stephens James L. Stephens, Eng. Tech.

Date: 02-14-94

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	1066
Pennington	1066	1956
Princeton	1161	1203
M. Maxton	1614	1630
L. Maxton	1861	1944
Little Lime	1956	2054
Big Lime	2054	2376
Borden	2376	2869
M. Weir	2484	2673
Sunbury Shale	2869	2877
Berea	2877	2921
Devonian Shale	2921	T.D.
Gordon	3082	3103

Drillers TD 4864

Loggers TD 4863

85/8 cmt'd to surface by grouting after primary job.

Perf L. Devonian Shale using 3/4" HCG .33 jets sf 1 spf @ 4742, 4727, 4711, 4700, 4671, 4664, 4638, 4588, 4570, 4548, 4537, 4493, 4461, 4445, 4417, 4407, 4397, 4373, 4357, 4355, ..
Dump 300 gal 10½% HCl-Fe acid, 90-75Q FF L. Dev. using 98,500# 20/40 sand, 700,000 scf N₂ @ 26200-23350 scf/min. BD 2357, ATP 3100 @ 40 BPM foam, MTP 3980, ISIP 2200, TF 178 Bbls.

Perf U. Dev. using .33 jets in 3/4" HCG sf 1 spf @ 4151, 4145, 4123, 4110, 4097, 4072, 4055, 4026, 4004, 3995, 3985, 3963, 3931, 3905, 3891, 3852, 3839, 3797, 3789, 3752. Dowell pump 400 gal 10½% HCl-Fe acid and frac ball. 90-75Q FF U. Dev. Shale using 146,000# 20/40 sand, 631,000 scf N₂ @ 24233-20000 scf/min rate. BD 2636, ATP 2850@ 40 BPM foam, MTP 3100, ISIP 2050, TF 219 Bbls.

Perf Gordon w/3/4" HCG .33 jets as follows; 2H/3171, 2H/3148, 29H/3086-3100, and 2H/3061. . 75Q FF Gordon using 500 gal 8½% HCl-Fe acid, 44,600# 20/40 sand ramped from 4-16 ppg, 189,000 scf N₂ @ 7,400 scf/min. BD 1102, ATP 1080 @ 20 BPM foam, MTP 1198, ISIP 1116, TF 142 Bbls.

20661

1) Date: July 23, 1993
2) Operator's well number
Rowland Land Company #107, Serial #144151
3) API Well No: 47 - 081 - 0959
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Rowland Land Company
Address 1033 Quarrier St., Room 301
Charleston, WV 25301
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name Same as No. 4(a)
Address _____
Name _____
Address _____

6) Inspector Rodney Dillon
Address P.O. Box 131
Bradley, WV 25818
Telephone (304)-877-2912

(c) Coal Lessee with Declaration
Name Consolidation Coal Company
Address 898 Workman Creek Road
Beckley, WV 25801

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: Don K. Cunningham *Don K. Cunningham*
Its: Professional Surveyor
Address P.O. Box 391
Ashland, KY 41114
Telephone 606-329-3870

Subscribed and sworn before me this 23rd day of July, 1993

Nicki W. Monte Notary Public
My commission expires November 23, 1994