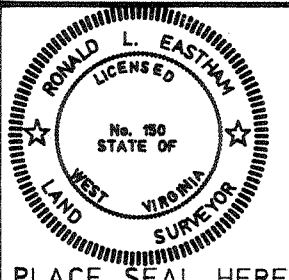


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 181276  
 PROVEN SOURCE OF ELEVATION A.E.I. Well #1153-B9  
 Ref. Elev. 1837.64

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. Eastham*  
 R.P.E. \_\_\_\_\_ L.L.S. 150



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

DATE June 27, 1992  
 OPERATOR'S WELL NO. Mingo Wyoming Coal Land Co.  
 API WELL NO. No. B-13, S.N. 141451

**47-059-1174**  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1892.16 WATER SHED Lefthand Fork of Gilbert Creek of the Guyandotte River  
 DISTRICT Stafford COUNTY Mingo  
 QUADRANGLE Gilbert

SURFACE OWNER Mingo Wyoming Coal Land Company, et al ACREAGE 2822.39  
 OIL & GAS ROYALTY OWNER Mingo Wyoming Coal Land Company, et al LEASE ACREAGE 4048.59

LEASE NO. 80599

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 6,285' KB

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Bobby E. Widener  
 ADDRESS P.O. Box 391 ADDRESS P.O. Box 379

DEEP WELL Ashland, Ky. 41114 Gilbert Brenton, W.V. 24818

AUG 10 1992

WR-35 RECEIVED  
 WV Division of  
 Environmental Protection

03-Aug-92  
 API # 47 - 59 - 01174

MAY 13 1993  
 Permitting  
 Office of Oil & Gas

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

Well Operator's Report of Well Work

Farm name: GADDY ENGINEERING CO. Operator Well No.: B 13 141451  
 LOCATION: Elevation: 1892.00 Quadrangle: GILBERT  
 District: STAFFORD County: MINGO  
 Latitude: 10000 Feet South of 37 Deg. 35 Min. 0 Sec.  
 Longitude: 8000 Feet West of 81 Deg. 50 Min. 0 Sec.

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

Agent: B. E. WIDENER

Inspector: OFIE HELMICK

Permit Issued: 08/03/92  
 Well work Commenced: 09-07-92  
 Well work Completed: 04-26-93  
 Verbal Plugging:  
 Permission granted on:  
 Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
 Total Depth (feet) 6360'  
 Fresh water depths (ft) Damp 82'  
 Salt water depths (ft) None Noted

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	40'	40'	11.8
11 1/4"	220'	220'	206
8 3/4"	2315'	2315'	770
5 1/2"	6320'	6320'	570
1.9" @ 6142' KB w/R-4 pkr. @ 4376'			
1.9" @ 4329' KB			

Is coal being mined in area (Y/N)? N  
 Coal Depths (ft): open mine 160-169  
 552-559, 574-582, 587-592, 822-825

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4558'-6252'  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow -- Bbl/d  
 Final open flow 843 MCF/d Final open flow -- Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static rock pressure 480 psig (surface pressure) after 72 Hours

Second producing formation Berea Pay zone depth (ft) 4291-4314'  
 Gas: Initial open flow 0 MCF/d Oil: Initial open flow -- Bbl/d  
 Final open flow 621 MCF/d Final open flow -- Bbl/d  
 Time of open flow between initial and final tests 3 Hours  
 Static rock Pressure 520 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: 5/10/93

Reviewed JM6  
 Recorded \_\_\_\_\_

MAY 24 1993

<u>Formation or Rock Type</u>	<u>Top</u>	<u>Base</u>
Sand and Shale (base Lee Sand)	0	2221
Pennington	2221	3256
U. Maxton	2564	2705
M. Maxton	2883	3036
L. Maxton	3163	3210
Little Lime	3256	3371
Big Lime	3371	3707
Borden	3707	4261
Sunbury Shale	4261	4290
Berea	4290	4319
Devonian Shale	4319	6345
Onondaga lime	6345	T.D.

Drillers TD 6360

Loggers TD 6364

85/8 and 113/4 cmt't to surface on primary job.

830  
perf Rhinestreet Shale w/ 3/4" HCG SF 1SPF @ 6105, 6082, 6075, 6068, 6061, 6058, 6046, 6034, 6025, 6022, 6008, 6004, 5996, 5982, 5962, 5960, 5949, 5926. Pumped 200 gals 7.9% HCl-Fe acid. N<sub>2</sub> frac Rhinestreet Shale using 818,000 scf N<sub>2</sub>. BD 3861, MTP 4077, ATP 4003 @ 99,400 scf/min, ISIP 2707.

813 perf L. Huron using 3/4" SF 1SPF @ 5551, 5536, 5529, 5492, 5487, 5462, 5459, 5422, 5417, 5390, 5342, 5291, 5280, 5212, 5208, 5193, 5186, 5171, 5167, 5144. Pumped 1 bbl wtr and 500 gals 8% HCl-Fe acid. N<sub>2</sub> frac L. Huron using 821,000 scf N<sub>2</sub>. BD 3988, MTP 4131, ATP 3493 @ 101,000 scf/min, ISIP 1894.

404 perf U. Dev. Shale w/ 3/4" HCG SF 1SPF @ 4869, 4851, 4846, 4833, 4768, 4758, 4727, 4688, 4630, 4606, 4565, 4499, 4447, 4436, 4421, 4413, 4407. Pump 1 bbl wtr and 500 gal 8% HCl-Fe acid. N<sub>2</sub> frac U. Dev. Shale w/ 812,000 scf N<sub>2</sub>. BD 3955, MTP 3955, ATP 3422 @ 103,000 scf/min, ISIP 1860.

225 perf Berea using 4" HCG 2SPF 4137-4156. Dump 500 gal 16% HCl-Fe acid. 75Q ramp frac Berea 4-20 ppg using 60800# 20/40 sand; 294,300 scf N<sub>2</sub> @ 9300 scf/min. BD 1011, MTP 1263, ATP 1050 @ 20 BPM foam, ISIP 915, TF 174 bbls.

345 perf Big Lime using 4" HCG 2SPF @ 3500-3505, 3520-3525. Acidized Big Lime using estimated 75Q foamed acid, 2000 gals 28% HCl-Fe acid and 500 gal 15% HCl-Fe acid, 258,000 scf N<sub>2</sub> @ 10,600 scf/min. Acid rate 4-5 BPM. Dropped perf balls: 4 @ 11 1/2 bbls, 4 @ 36 bbls and 4 @ 50 bbls -- some action. BD 2180, MTP 2630, ATP 1950, ISIP 1600, 15 min 1020, TF 90 bbl.

DF -461

DFT-830

13971

47-059-1174 Issued 8/3/92

Expires 8/3/94

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

- 1) Well Operator: Ashland Exploration, Inc. 2750 (6) 343
Mingo Wyoming Coal Land Co.
2) Operator's Well Number: B-13, Serial #141451 3) Elevation: 1892'
4) Well type: (a) Oil\_\_\_/ or Gas\_X/
(b) If Gas: Production\_X/ Underground Storage\_\_\_/
Deep\_\_\_/ Shallow\_X/
5) Proposed Target Formation(s): Devonian Shale
6) Proposed Total Depth: 6285'KB feet
7) Approximate fresh water strata depths: 113', 170'
8) Approximate salt water depths: (None Noted on Adjacent Wells)
9) Approximate coal seam depths: Pond Creek, 142'KB, Mined Out;
10) Does land contain coal seams tributary to active mine? Yes\_\_\_/ No\_X\_/
11) Proposed Well Work: Drill and Stimulate New Well
12)

RECEIVED
Office of Oil & Gas
Permitting
JUL 17 1992
WV Division
Environmental Protection

CASING AND TUBING PROGRAM

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up (cu.ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

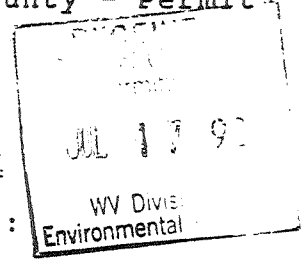
PACKERS : Kind
Sizes
Depths set

506647 28 For Division of Oil and Gas Use Only

Fee(s) paid: [X] Well Work Permit [X] Reclamation Fund [X] WPCP
[X] Plat [X] WW-9 [X] WW-2B [X] Bond Blanket Sure Agent
(Type)

1) Date: July 15, 1992  
2) Operator's well number  
Mingo Wyoming Land Co. #B-13, Serial #141451  
3) API Well No: 47 - 059 - 1174  
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 Gaddy Engineering Co., Agent  
Address 945 4th Ave., Suite 300  
Huntington, WV 25701

(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 Ofie Helmick  
Address P.O. Box 218  
Fanrock, WV 24834  
Telephone (304)-732-9135

(c) Coal Lessee with Declaration  
Name National Mines, Inc.  
Address P.O. Box 12022  
Lexington, KY 40579

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: W. Mark Parks

Its: Operations Manager

Address P.O. Box 391

Ashland, KY 41114

Telephone 606-329-5989

Subscribed and sworn before me this 15th day of July, 1992

David W. Santa

Notary Public

My commission expires November 23, 1994