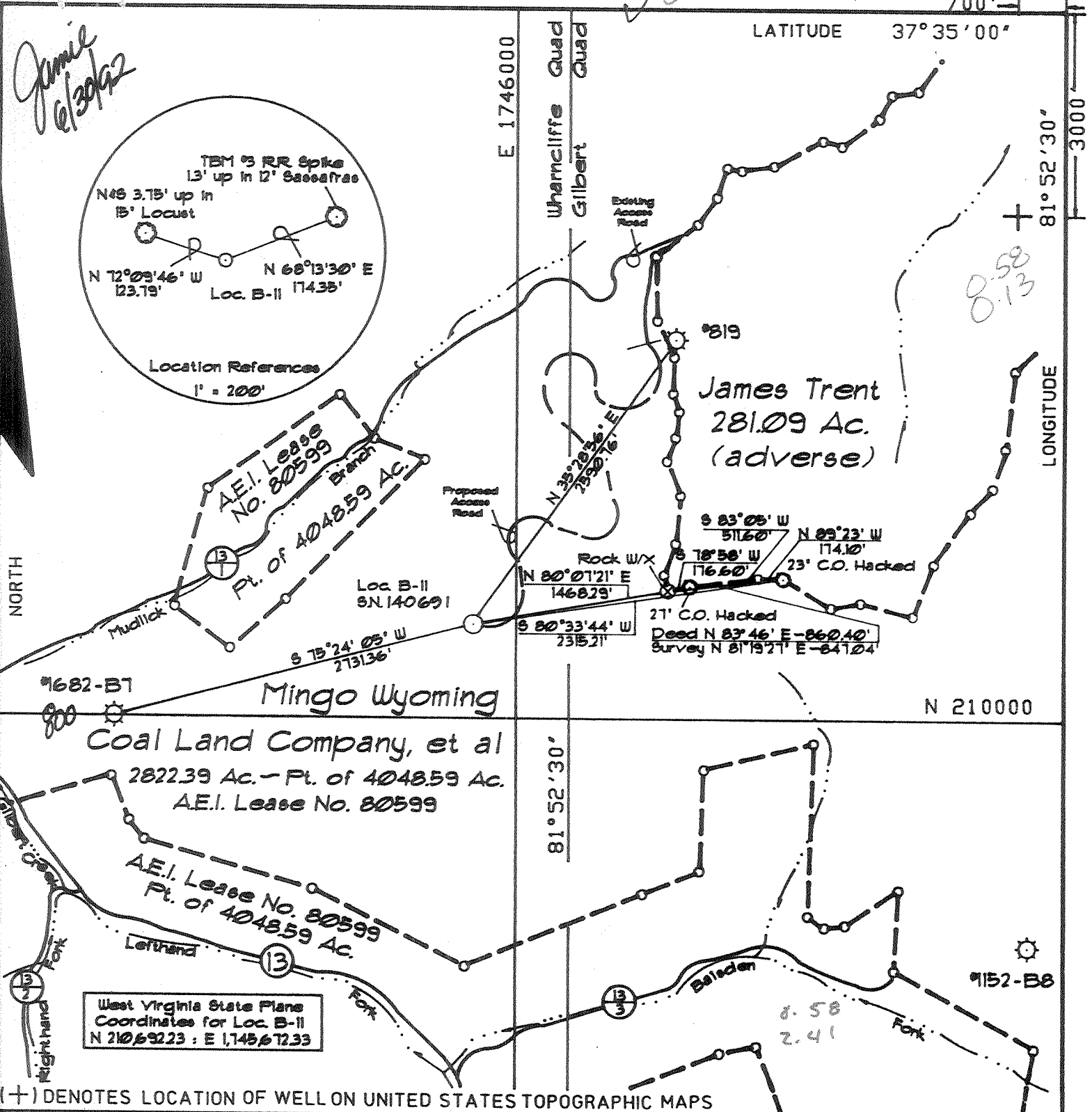
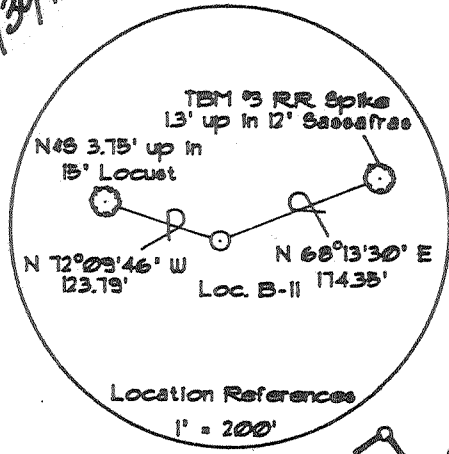
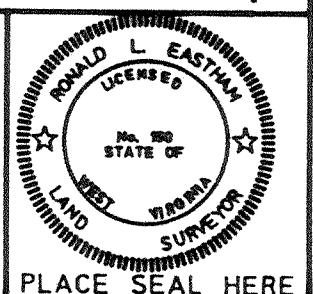


Janice 6/30/92



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:38,551
 PROVEN SOURCE OF ELEVATION A.E.I. Well #1152-B8
 Ref. Elev. = 1844.51

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 4, 1992
 OPERATOR'S WELL NO. B-II
 API WELL NO. SN. 140691
47-059-1170
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION 1751.87 WATER SHED Mudlick Branch of Gilbert Creek of the Guyandotte River
 DISTRICT Stafford COUNTY Mingo
 QUADRANGLE Wharnccliffe Gilbert SC

SURFACE OWNER Mingo Wyoming Coal Land Company, et al ACREAGE 2822.39
 OIL & GAS ROYALTY OWNER Mingo Wyoming Coal Land Co., et al LEASE ACREAGE 4048.59
 LEASE NO. 80599

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 6132' KB

WELL OPERATOR Ashland Exploration, Inc. DESIGNATED AGENT Bobby E. Widener
 ADDRESS P.O. Box 391 Ashland, Ky. 41114 ADDRESS P.O. Box 379 Brenton, W.V. 24818

DEEP WELL 6-6 Gilbert (271)

COUNTY NAME
 PERMIT

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 11 S 140691

LOCATION: Elevation: 1751.90

Quadrangle: WHARNCLIFFE

RECEIVED

District: STAFFORD

County: MINGO

Latitude: 3000 Feet South of 37 Deg. 35 Min. 0 Sec.

Longitude: 700 Feet West of 81 Deg. 52 Min. 30 Sec.

JUN 15 93

Permitting
Office of Oil & Gas

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

Agent: B. E. WIDENER

Inspector: OFIE HELMICK

Permit Issued: 07/02/92
Well work Commenced: 08/18/92
Well work Completed: 12/29/92
Verbal Plugging:
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 6101
Fresh water depths (ft) _____
None
Salt water depths (ft) _____
Damp @ 400'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 90-93, 168-172

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	41'	41'	11.8
11 3/4"	222'	222'	134
8 5/8"	1990'	1990'	669
5 1/2"	6063'	6063'	516
1.9" @ 1.9" @	5946' w/ 4148'	R-4 pkr @	4200

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth (ft) 4329-6013
Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 637 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock pressure 535# psig (surface pressure) after 72 Hours

Second producing formation Berea Pay zone depth (ft) 4111-4132
Gas: Initial open flow 0 MCF/d Oil: Initial open flow --- Bbl/d
Final open flow 1057 MCF/d Final open flow --- Bbl/d
Time of open flow between initial and final tests 3 Hours
Static rock Pressure 530# psig (surface pressure) after 72 Hours

1057
637
1094
FOR
total
for well

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.

Form ASHLAND EXPLORATION, INC.

MAY 24 1993

Reviewed TMG
Recorded CH

By: James L. Stephens James L. Stephens, Eng. Tech.
Date: 1/13/92

<u>Formation or Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale	0	1350
Lee formation	1350	1900
Pennington formation	1900	3100
Ravenscliff 2052-2160		
U. Maxton 2454-2619		
M. Maxton 2734-2878		
L. Maxton 3028-3060		
Little Lime	3100	3212
Big Lime	3212	3534
Borden	3534	4082
Sunbury Shale	4082	4108
Berea	4108	4137
Devonian Shale	4137	6082
Onondaga Ls	6082	TD

DTD 6101
LTD 6100

8" and 11 1/4" casing cemented to surface on primary job.

Well Treatment

⁸³⁶
Perf Rhinestreet 13H/5906-6013. N₂ frac using 200 gal 8% fe acid, 603,000 scf N₂ @ 73,000 scf/min. BD @ 3640#, ATP 4000#, MTP 4260# and ISIP 3400#.

⁸¹³
Perf Huron 23H/5133-5535. N₂ frac using 500 gal 8% fe acid, 805,000 scf N₂ @ 102,000 scf/min. BD @ 2210#, ATP 2900#, MTP 3070# and ISIP 2000#.

⁴⁰⁴
Perf U. Dev. Shale 19H/4329-4652. N₂ frac using 500 gal 8% fe acid, 810,000 scf N₂ @ 100,000 scf/min. BD @ 1790#, ATP 2700#, MTP 2850# and ISIP 2100#.

Perf Berea 40H/4111-4132. 75 quality foam frac using 500 gal 18% fe acid, 58,400# 20/40 sand and 295,000 scf N₂ @ 9500 scf/min. BD @ 1238#, ATP 1176# @ 20 BPM foam rate, MTP 1298# and ISIP 1188#.

059-1170

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

Issued 7/2/92
Expires 7/2/94

- 1) Well Operator: Ashland Exploration, Inc. 2750 (b) 671
Mingo Wyoming Coal Land Co.
- 2) Operator's Well Number: B-11, Serial #140691 3) Elevation: 1751.9'
- 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: 6132'KB feet
- 7) Approximate fresh water strata depths: 85'KB
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: Pond Creek, 163'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)

CASING AND TUBING PROGRAM

13831

TYPE	SIZE	GRADE	WEIGHT PER FT.	FOOTAGE FOR DRILLING	FOOTAGE LEFT IN WELL	CEMENT
Conductor	16	LS	36.91	30	30	CTS
Fresh Water						2859/11.3
Coal	11 3/4	H40	42.0	223	223	CTS
Intermediate	8 5/8	J55	24.0	1977	1977	2859/11.2 CTS
Production	5 1/2	J55	15.5	6132	6132	AS NEEDED
Tubing	1.9	J55	2.76	-	6070	SIPHON
Liners						6385/11/11

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

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

Date: June 11, 1992
Operator's well number
Mingo Wyoming Coal Land Co. #B-11, S.N. 140691
API Well No: 47 - 059 - 1170
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 _____
6) Inspector Ofie Helmick
Address P.O. Box 218
Fanrock, WV 24834
Telephone (304)- 732-9135

5) (a) Coal Operator:
Name N/A
Address _____
(b) Coal Owner(s) with Declaration
Name Same as No. 4(a)
Address _____
Name _____
Address _____
(c) Coal Lessee with Declaration
Name National Mines, Inc.
Address P.O. Box 960
Pineville, WV 24874

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 *W. Mark Parks*
Its: Operations Manager
Address P.O. Box 391
Ashland, KY 41114
Telephone 606-329-5989

Subscribed and sworn before me this 11th day of June, 1992

Paul W. North

Notary Public
My commission expires November 23, 1994