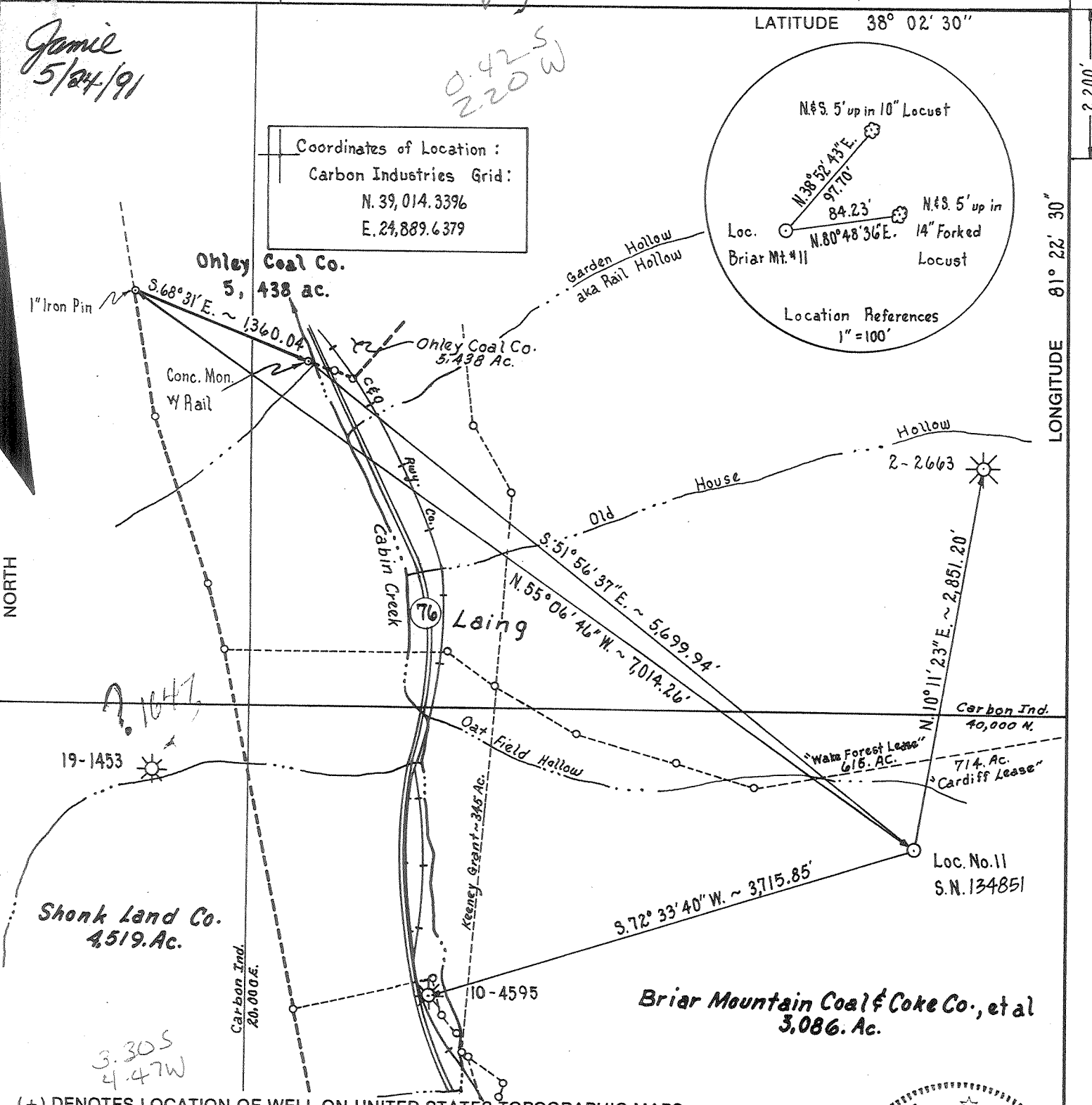
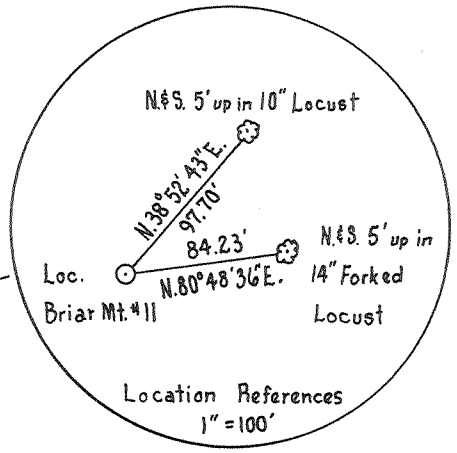


Jamie
5/24/91

0.42 S
220 W

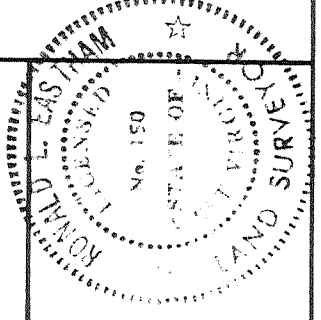
Coordinates of Location :
 Carbon Industries Grid:
 N. 39, 014. 3396
 E. 24, 889. 6379



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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1:1,000'
 MINIMUM DEGREE OF ACCURACY 1:22,681
 PROVEN SOURCE OF ELEVATION A.E.I. Sta. 10-03
Elev. = 1019.0

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 DEPARTMENT OF ENERGY.
 (SIGNED) Ronald L. East
 R.P.E. _____ L.L.S. 150



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE March, 28, 19 91
 OPERATOR'S WELL NO. Briar Mtn. Coal & Coke #11
 API WELL NO. _____ S.N. 134851

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

LOCATION: ELEVATION 1,808.8 WATERSHED Oak Field Hollow of Cabin Creek
 DISTRICT Cabin Creek 2 COUNTY Kanawha
 QUADRANGLE Eskdale Montgomery SC

SURFACE OWNER Briar Mountain Coal & Coke Co., et al ACREAGE 3,086 Ac.
 OIL & GAS ROYALTY OWNER Briar Mountain Coal & Coke Co., et al LEASE ACREAGE 3,086 Ac.
 LEASE NO. 9967

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 FORMATION Devonian Shale ESTIMATED DEPTH 6,494' K.B.
 WELL OPERATOR Ashland Exploration Inc. DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391, Ashland, Ky. 41114 ADDRESS P.O. Box 379, Brenton, W.V., 24818

MAY 31 1991

DEEP WELL 6-6 Burnwell

(262)

State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and Gas

Reviewed Im6
Recorded _____

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Oil and Gas Section

Well Operator's Report of Well Work

Farm name: BRIAR MT. COAL & COKE Operator Well No.: 11 S-13486

LOCATION: Elevation: 1808.80 Quadrangle: ESKDALE

District: CABIN CREEK County: KANAWHA
Latitude: 2200 Feet South of 38 Deg. 2 Min. 30 Sec.
Longitude 11550 Feet West of 81 Deg. 22 Min. 30 Sec.

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

Agent: FORREST BURKETT

Inspector: CARLOS W. HIVELY
Permit Issued: 05/29/91
Well work Commenced: 08/28/91
Well work Completed: 11/13/91
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 6587
Fresh water depths (ft) Damp @ 204'
944' (MAP WV-12)
Salt water depths (ft) None noted
1344' (MAP WV-12)
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 477-478, 515-520,
568-571, 196-199, 266-268, 705-710

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
16"	37'	37'	11.8
11 3/4"	790'	790'	523
8 5/8"	1805'	1805'	546
5 1/2"	6523'	6523'	1008
2 3/8" @	6302'		

OPEN FLOW DATA

Producing formation	Dev. Shale	3651-6472
M. Weir	Pay zone depth (ft)	3098-3108
Gas: Initial open flow 59 MCF/d	Oil: Initial open flow 0 Bbl/d	
Final open flow 2386 MCF/d	Final open flow 0 Bbl/d	
Time of open flow between initial and final tests 3 Hours		
Static rock Pressure 530 psig (surface pressure) after 72 Hours		
Second producing formation -0-	Pay zone depth (ft) -0-	
Gas: Initial open flow -0- MCF/d	Oil: Initial open flow -0- Bbl/d	
Final open flow -0- MCF/d	Final open flow -0- Bbl/d	
Time of open flow between initial and final tests -0- Hours		
Static rock Pressure -0- psig (surface pressure) after -0- 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: James L. Stephens Jr James L. Stephens, Eng. Tech.
Date: 11-26-91

<u>Formation on Rock Type</u>	<u>TOP</u>	<u>BASE</u>
Sand and Shale (Base Lee fm.)	0	1838
Pennington fm.	1838	2589
Maxton Section 2106-2546		
Little Lime	2589	2675
Big Lime	2675	2972
Injun	2972	3042
Shale	3042	3458
M. Weir 3094-3112		
Sunbury Shale	3458	3480
Berea	3480	3523
Devonian Shale	3523	6577
Gordon 3704-3719		
Onondaga Ls.	6577	TD

DTD 6587' KB
LTD 6599' KB

11 3/4" csg was cmt'd to surface by grouting 55 sx CI A cmt.
8 5/8" csg was cmt'd to surface on the primary job.

Well Treatment

Perf Rhinestreet 20H/5982-6472. N₂ frac using 500 gal 8% inh. fe acid, 804,000 scf N₂ @ 93,570 scf/min. BD @ 3160#, ATP 3800#, MTP 4100#, ISIP 3000# and 15 minutes 2502#.

Perf Huron 20H/4965-5440. N₂ frac using 500 gal 8% inh fe acid and 802,000 scf N₂ @ 98,373 scf/min. BD @ 3076#, ATP 3081, MTP 3155, ISIP 2025 and 15 min. 1430#.

Perf Chagrin 18H/3938-4190. N₂ frac using 500 gal 8% inh. fe acid, 805,000 scf N₂ @ 101,396 scf/min. BD @ 2526#, ATP 3115, MTP 3234, ISIP 2082.

Perf U. Dev and Gordon 15H/3651-3074. 75 Quality foam frac using 250 gal 15% inh. fe acid, 74,300# 20/40 sand, 318,640 scf N₂ @ 10,100 scf/min. BD @ 1289#, ATP 1220# @ 30 BPM foam rate, MTP 1306#, ISIP 1112# and TF 271 bbls.

Perf M. Weir 15H/3098-3108. 75 Quality foam frac M. Weir using 500 gal 15% inh. fe acid, 70,000# 20/40 sand and 520,800 scf N₂ @ 7692 and 9500 scf/min. BD @ 1437# ATP 1524#, MTP 1636#, ISIP 1164# and TF 190 bbls.

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Division of Energy
NOV 27 91
Permitting
Oil and Gas Section

DEC 13 1991

MAY 13 91

- 1) Date: May 8, 1991
- 2) Operator's well number Briar Mountain Coal & Coke #11, Serial #13485
- 3) API Well No: 47 - 039 - 4816
State - County - Permit

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

- | | |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Briar Mt. Coal & Coke Co.</u>
Address <u>Box 831</u>
<u>Charleston, WV 25323</u></p> <p>(b) Name <u>Wescar, Inc. (Div. Carbon Ind.)</u>
Address <u>1300 One Valley Square</u>
<u>Charleston, WV 25301</u></p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:
Name <u>Carbon Industries</u>
Address <u>1300 One Valley Square</u>
<u>Charleston, WV 25301</u></p> <p>(b) Coal Owner(s) with Declaration
Name <u>Same as No. 4(a)</u>
Address _____</p> <p>Name <u>Same as No. 4 (b)</u>
Address _____</p> <p>(c) Coal Lessee with Declaration
Name <u>Carbon Industries</u>
Address <u>1300 One Valley Square</u>
<u>Charleston, WV 25301</u></p> |
| <p>6) Inspector <u>Carlos Hively</u>
Address <u>223 Pinch Ridge Road</u>
<u>Elkview, WV 25071</u>
Telephone (304)- <u>965-6069</u></p> | |

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

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)

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 8th day of May, 1991

Ticki W. Santa Notary Public
My commission expires November 23, 1994

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

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATE, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Briar Mt. Coal & Coke Operator Well No.: 134852
Elevation: 1808.80' Quadrangle: Eskdale
District: Cabin Creek County: Kanawha
Latitude: Feet South of 00 Deg. 00 Min. 00 Sec.
Longitude: Feet West of 00 Deg. 00 Min. 00 Sec.

Well Type: OIL _____ GAS XXXX

Company: Penn-Virginia Operating Co. LLC Coal Operator Ed Coal, Inc.
One Carbon Center Suite 100 or owner PO Box 726
Chesapeake, WV 25315 Ceredo, WV 25507

Briar Mt. Coal & Coke Co. Attn Sherman E. Withler
Route 1 Box 150
Red House, WV 25618 Office of Oil & Gas

Agent: Terry Urban
PO Box 1207
Clendenin, WV 25618
JUL 08 2011 Coal Lessee: JMAC Leasing, Inc.
PO Box 726, Ceredo, WV 25507
With declaration _____

Permit Issued Date: _____
WV Department of
Environmental Protection

STATE OF WEST VIRGINIA,
County of Kanawha

ss: Jacob Snider and Jackie Carpenter being first duly sworn

according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Terry Urban Oil and Gas Inspector representing the Director, say that said work was commenced on the 18 day of March 2011 and that the well was plugged and filled in the following manner:

TYPE	FROM	TO	PIPE REMOVED	LEFT	
Cement	6302'	5882'	5 1/2"	1804'	4719'
Cement	5212'	4865'			
Cement	4190'	3838'	8 5/8"	0'	1805'
Cement	3651'	2998'			Cemented to surface
Cement	3195'	2998'	11 3/4"	0'	790'
Cement	2977'	2625'			Cemented to surface
Cement	2046'	1754'	16"	0'	37'
Cement	837'	740'			Cemented to surface
Cement	217'	0'			
6% Gel between each plug					
Shot 5 1/2" @ 2977'; 2 times; 2835'; 2 times; 2703'; 2 times; 1982'; 2 times; 1890'; 2 times; 1804'; Free; Tagged plug @ 5882'; 4865'; 3838'; 3195'; 2998'; reset plug 3195' - 2998'					

Description of monument: 7 inch casing - 8 feet long with API # welded on it and that the work of plugging and filling said well was completed on the 1st day of April 2011.

And further deponents saith not. *Jacob Snider*

Sworn and subscribe before me this 5 day of April, 2011

My commission expires May 24, 2016



NOTARY PUBLIC
STATE OF WEST VIRGINIA
SUSAN BRYANT
ROUTE 1 BOX 364
PINE GY, WV 25201
Expires May 24, 2016

Susan Bryant
Notary Public

Terry Urban
Oil and Gas Inspector