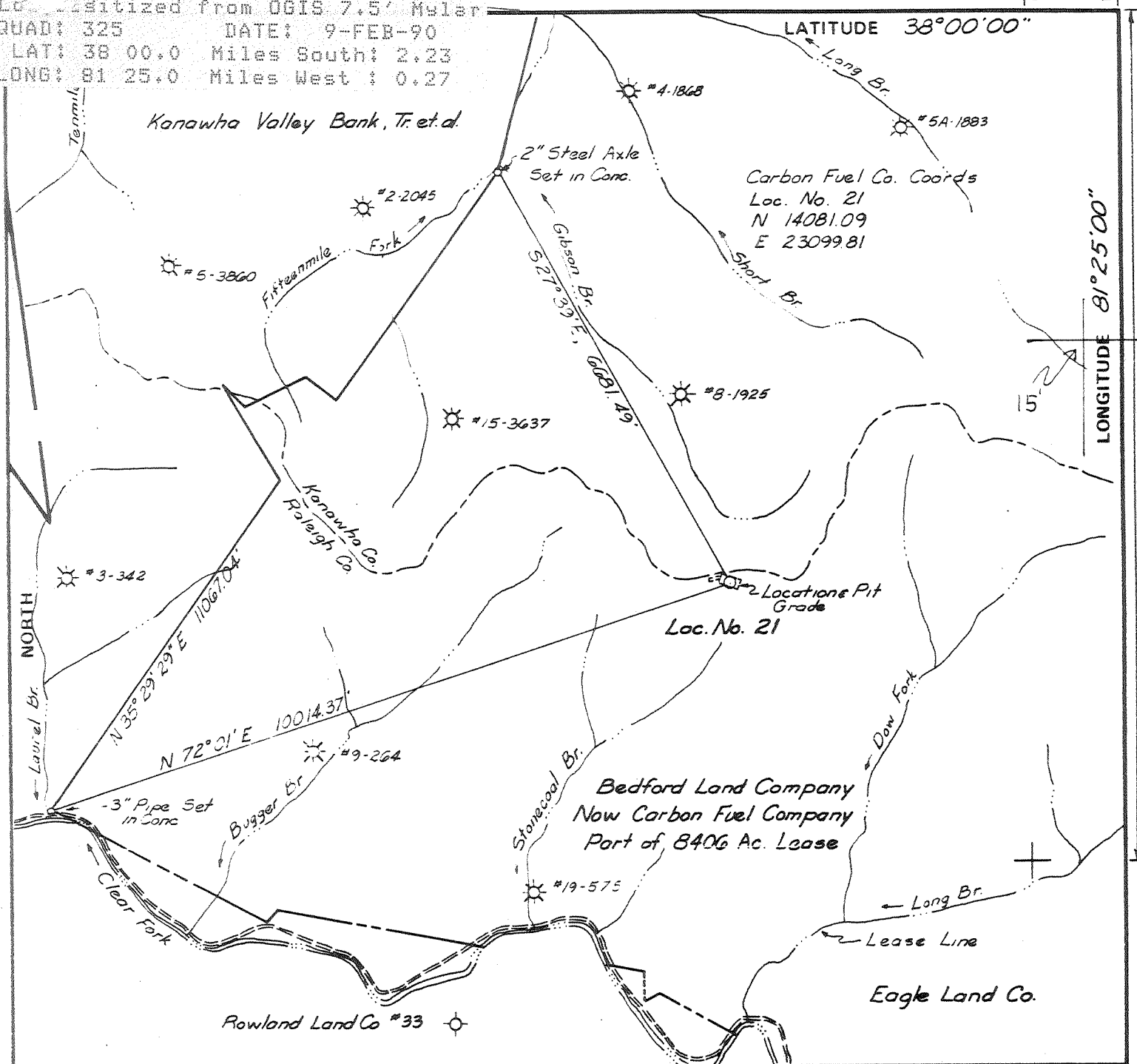


CO: 81 PMT: 627
 Digitized from OGIS 7.5' Miler
 QUAD: 325 DATE: 9-FEB-90
 LAT: 38 00.0 Miles South: 2.23
 LONG: 81 25.0 Miles West: 0.27

1290'



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 103,000
 PROVEN SOURCE OF ELEVATION Carbon Fuel Co. Coordinates Control Points

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 MINES.
 (SIGNED) Stephen Parks
 R.P.E. 8982 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE Dec 17, 1982
 OPERATOR'S WELL NO. 21-Ser 096481
 API WELL NO. 47-081-0627-001
 STATE COUNTY PERMIT Frac.

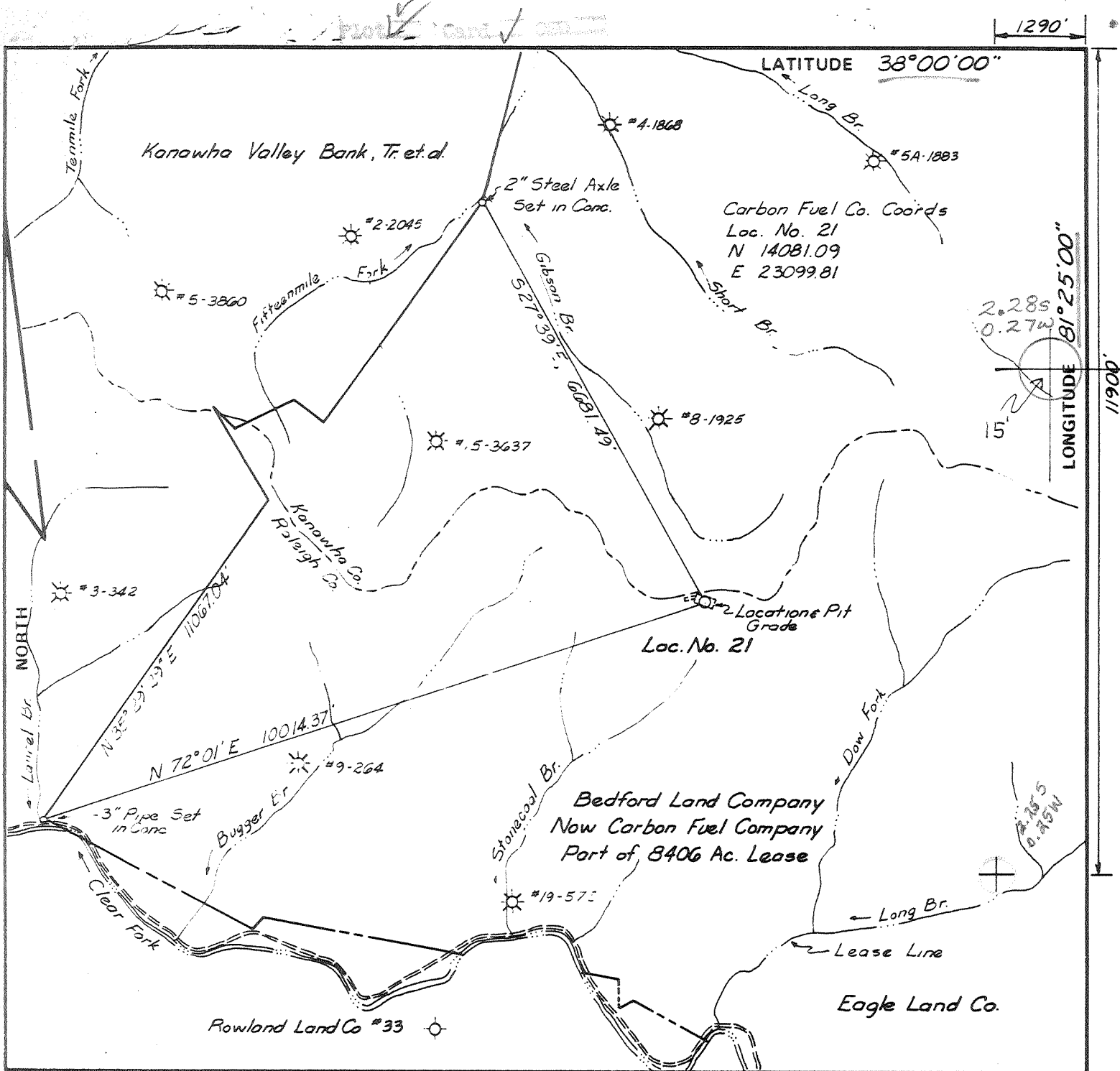
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2260.1 WATER SHED Stonecoal Branch of Clear Fork
 DISTRICT Clear Fork COUNTY Raleigh
 QUADRANGLE Dorothy Eccles
 SURFACE OWNER Carbon Fuel Company ACREAGE 8300+
 OIL & GAS ROYALTY OWNER Carbon Fuel Company LEASE ACREAGE 8406
 LEASE NO. 9965
 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 Onondaga Lime ESTIMATED DEPTH 6905'
 WELL OPERATOR Ashland Exploration, Inc DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 Ashland Ky 41114 ADDRESS P.O. Box 156 Brenton WV 24818

H. T. HALL OWWO 6.6 Burnwell (262) - new zones completed.

00611
 NOV 05 1984
 KAL. - 0627-Ren.



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 103,000
 PROVEN SOURCE OF ELEVATION Carbon Fuel Co. Coordinates Control Points

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 MINES.
 (SIGNED) Stephen Parks
 R.P.E. 8982 L.L.S. _____

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE Dec 17, 1982
 OPERATOR'S WELL NO. 21-Ser #096481
 API WELL NO. 47-081-0627
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
 LOCATION: ELEVATION 2260.1 WATER SHED Stonecoal Branch of Clear Fork
 DISTRICT Clear Fork COUNTY Raleigh
 QUADRANGLE Dorothy Eccles 15' NW
 SURFACE OWNER Carbon Fuel Company ACREAGE 8300+
 OIL & GAS ROYALTY OWNER Carbon Fuel Company LEASE ACREAGE 8406
 LEASE NO. 9965
 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 Onondaga Lime ESTIMATED DEPTH 6905' deep well
 WELL OPERATOR Ashland Exploration, Inc DESIGNATED AGENT Forrest Burkett
 ADDRESS P.O. Box 391 Ashland Ky 41114 ADDRESS P.O. Box 156 Brenton WV 24818



IV-35
(Rev 8-81)

Date 1/24/85
Operator's
Well No. 21
Farm Bedford Land Co.
API No. 47-081-0627-FRAC

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas x / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production x / Underground Storage ___ / Deep x / Shallow ___ /)

LOCATION: Elevation: 2260.1 Watershed Clear Fork of Big Coal River
District: Clear Fork County Raleigh Quadrangle Dorothy

COMPANY Ashland Exploration, Inc.
ADDRESS P. O. Box 391, Ashland, Ky. 41114
DESIGNATED AGENT Forrest Burkett
ADDRESS Box 156, Brenton, WV 24818
SURFACE OWNER Carbon Fuel Co.
ADDRESS Suite 1300, One Valley Square-Charleston WV
MINERAL RIGHTS OWNER Carbon Fuel Co.
ADDRESS Suite 1300, One Valley Sq. - Charleston WV
OIL AND GAS INSPECTOR FOR THIS WORK Rodney Dillon
ADDRESS Box 30, Scarbro, WV
PERMIT ISSUED 11/1/84
~~DRILLING~~ COMMENCED 1/3/85
~~DRILLING~~ COMPLETED 1/17/85

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	50	50	25 sks
13-10"	623	623	200 sks
9 5/8			
8 5/8	2263	2263	410 sks
7			
5 1/2			
4 1/2	5564	5564	450 sks
3			
2		5900	
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION Gordon, Weir Depth 7027 feet
Depth of completed well 7027 feet Rotary x / Cable Tools _____
Water strata depth: Fresh 38 feet; Salt 1293 feet
Coal seam depths: Open mine 568-571 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon (W/Dev. Shale) ^{completed originally} Pay zone depth 4076-4093 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 189 Mcf/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 hours
Static rock pressure 457 psig (surface measurement) after 72 hours shut in
(If applicable due to multiple completion--)
Second producing formation Weir Pay zone depth 3465-3535 feet
Gas: Initial open flow show Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow 133 Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests 3 hours
Static rock pressure 630 psig (surface measurement) after 72 hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf Gordon 20H/4076-4093 - dump 500 gal 15% HCl & 75 Q foam frac using 30,000# 20/40 sand, 300,000 SCF N₂, 173 bbl. TL&FW. BD @ 1390#, ATP 1400# @ 20 B/M foam. ISIP 760#

Perf L. Weir 25H/3501-3535 & perf M. Weir 10H/3465-3475. Dump 500 gal 15% HCl. 75 Q foam frac M. & U. Weir together using 50,000# 20/50 sand, 360,000 SCF N₂, 227 bbl TL&FW. BD @ 1800#, ATP 2000# @ 45 B/M foam. ISIP 1200#.

Producing from Dev. Shale & Gordon commingled & from the M. & U. Weir - separated by a pkr @ 3700'.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Reported on original form			

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.

Well Operator

By:

Walter A. Davis

Date:

January 24, 1985

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including



IV-35
(Rev 8-81)

Date 2/6/84
Operator's
Well No. 21
Farm Bedford Land Co.
API No. 41 - 081 - 0627

FEB 8 1984
OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep X / Shallow /)

LOCATION: Elevation: 2260.1' Watershed Clear Fork of Big Coal River
District: Clear Fork County Raleigh Quadrangle Dorothy

COMPANY Ashland Exploration, Inc.
ADDRESS P. O. Box 391, Ashland, Ky. 41114
DESIGNATED AGENT Forrest Burkett
ADDRESS P. O. Box 156, Brenton, WV 24818
SURFACE OWNER Carbon Fuel Co.
ADDRESS 1300 - One Valley Square, Charleston, WV 25301
MINERAL RIGHTS OWNER Carbon Fuel Co.
ADDRESS 1300 - One Valley Square, Charleston, WV 25301
OIL AND GAS INSPECTOR FOR THIS WORK Craig Duckworth
ADDRESS Box 454, Mt. Lookout, WV
PERMIT ISSUED 12/22/82
DRILLING COMMENCED 12/1/83
DRILLING COMPLETED 12/19/83
IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	50'	50'	25 sks
13-10"	623'	623'	200 sks
9 5/8			
8 5/8	2263'	2263'	410 sks
7			
5 1/2			
4 1/2	5564'	5564'	200 sks
3			
2		5902'	
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 6905 feet
Depth of completed well 7027 feet Rotary X / Cable Tools
Water strata depth: Fresh 38 feet; Salt 1293 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Rhinestreet Devonian Shale Pay zone depth 5564 - 7027 feet
Gas: Initial open flow 70 Mcf/d Oil: Initial open flow Ebl/d
Final open flow (492) Mcf/d Final open flow Ebl/d
Time of open flow between initial and final tests 3 hours
Static rock pressure 820 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Ebl/d
Final open flow Mcf/d Oil: Final open flow Ebl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Devonian Shale 5564 - TD - Open hole foam frac Dev. Shale w/90 Quality foam using 75,000# 20/40 sd, 1642 MSCF N2 & 206 bbl TL&FW. Broke down @ 3000#, ATP 3900# @ 50 Bbl/min (foam rate) MTP 4150#, ISIP 2200#, 15 min SI 1700#.

Rhinestreet

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and gas
Sand & Shale			0	428	
Shale			428	450	
Sand & Shale			450	842	
Shale			842	897	
Sand & Shale			897	1228	
Shale			1228	1265	
Sand & Shale			1265	1450	
Shale			1450	1494	
Sand & Shale			1494	1595	
Lower Salt. Sand			1595	2270	
Shale			2270	2305	
Ravencliff			2305	2348	
Shale			2348	2364	
Avis Ls			2364	2395	
Sand & Shale			2395	2865	
Lower Maxton			2865	2945	
Shale			2945	2951	
Little Lime			2951	3035	
Pencil Cave			3035	3048	
Big Lime			3048	3366	
Shale			3366	3395	
Injun			3395	3424	
Shale			3424	3459	
Middle Weir			3459	3481	
Shale			3481	3499	
Lower Weir			3499	3613	
Shale			3613	3838	
Coffee Shale			3838	3864	
Berea			3864	3905	
Devonian Shale			3905	TD	

DTD 7027 Rhinestreet @ TD ←
 LTD 7026

5564.
 3905
 4659

7027
 3905
 3122

(Attach separate sheets as necessary)

ASHLAND EXPLORATION, INC.

Well Operator

By:

Steve A. Dina

Date:

2/6/84

Note: Regulation 2.02(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: November 1, 1983
 2) Operator's Serial No. 096481
 Well No. Bedford Land No. 21
 3) API Well No. 47 - 081 - 0627-Ren
 State County Permit

RECEIVED
NOV 8 - 8 AM 1983

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

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep X / Shallow)
- 5) LOCATION: Elevation: 2260.1' Watershed: Clear Fork of Big Coal River
 District: Clear Fork County: Raleigh Quadrangle: Dorothy
- 6) WELL OPERATOR Ashland Exploration, Inc. 7) DESIGNATED AGENT Forrest Burkett
 Address P.O. Box 391 Address Box 156
Ashland, KY 41114 Brenton, WV 24818
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Rue Schoolcraft Name Ray Resources Drilling Company
 Address Box 706 Address 2101 Washington St., East
Pineville, WV 24874 Charleston, WV 25311
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 12) Estimated depth of completed well, 6905 feet top of
 13) Approximate trata depths: Fresh, feet; salt, salt sand feet.
 14) Approximate coal seam depths: 540 (open mine), 570 Is coal being mined in the area? Yes / No X
- 15) CASING AND TUBING PROGRAM 720

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	16	H-40	54	X		30	30	30 sks.	Kinds
Fresh water									
Coal	11 3/4	H-40	42	X		590	590	Circulate	Sizes
Intermediate	8 5/8	K-55	24	X		2265	2265	Circulate	<i>by rule 15'05</i>
Production	4 1/2	K-55	11.6	X		6905	6905	As Required	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-081-0627-Ren Date November 28, 19 83

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires November 28, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: <input checked="" type="checkbox"/>	Plat:	Casing	Fee
<i>EE</i>	<i>MW</i>	<i>MW</i>	<i>MW</i>	<i>000000</i>

Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

RECEIVED
SEP 26 1984



- 1) Date: September 25, 19 84
 2) Operator's: Bedford Land Company
 Well No. 21, Serial No. 096481
 3) API Well No. 47 - 081 - 0627 - FRAC
 State County Permit

OIL & GAS DIVISION STATE OF WEST VIRGINIA
DEPT. OF MINES DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep X / Shallow)
- 5) LOCATION: Elevation: 2260.1 Watershed: Clear Fork of Big Coal River
 District: Clear Fork County: Raleigh Quadrangle: Dorothy
- 6) WELL OPERATOR Ashland Exploration, Inc. 7) DESIGNATED AGENT Forrest Burkett
 Address P. O. Box 391 Address Box 156
Ashland, KY 41114 Brenton, WV 24818
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Rodney G. Dillon Name Tri-State Well Service
 Address Box 30, Scarbro, WV 25917 Address Box 299, 1 Berea Plaza
304/469-2015 Bridgeport, WV 26630
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation X /
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Devonian Shale, Gordon, Weir
- 12) ~~Estimated~~ depth of completed well, 7027 feet
- 13) Approximate trata depths: Fresh, 38 feet; salt, 1293 feet.
- 14) Approximate coal seam depths: Open Mine 568-571 Is coal being mined in the area? Yes / No X
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	
Conductor	16	H-40	65	X		50	50	25 sks.	Kinds	
Fresh water										
Coal	11 3/4	H-40	42	X		623	623	200 sks.	Sizes	
Intermediate	8 5/8	K-55	24	X		2263	2263	410 sks.		
Production	4 1/2	K-55	11.6	X		5564	5564	450 sks.	Depths set	
Tubing	2 3/8	J-55	4.7	X		5902	5902			
Liners									Perforations:	
									Top	Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-081-0627-FRAC Date November 1 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires November 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>10</u>	<u>MW</u>	<u>TS</u>	<u>TS</u>	<u>566</u> <u>197</u>

Margaret J. Hassel
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location. File
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1) Date: December 17, 1982
 2) Operator's Well No. 21, Serial No. 096481
 3) API Well No. 47 081 0627
 State County Permit

DRILLING CONTRACTOR:
Ray Resources Drilling Co.
2101 Washington St., East
Charleston, WV 25311

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow _____ /)
- 5) LOCATION: Elevation: 2260.1 Watershed: Clear Fork of Big Coal River
 District: Clear Fork County: Raleigh Quadrangle: Dorothy
- 6) WELL OPERATOR Asnland Exploration, Inc. 11) DESIGNATED AGENT Forrest Burkett
 Address P. O. Box 391 Address Box 156
Asnland, KY 41114 Brenton, WV 24818
- 7) OIL & GAS ROYALTY OWNER Carbon Fuel Company 12) COAL OPERATOR None
 Address 1300 - One Valley Square Address _____
Charleston, WV 25301
 Acreage 8406
- 8) SURFACE OWNER Carbon Fuel Company 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address 1300 - One Valley Square Name Carbon Fuel Company
Charleston, WV 25301 Address 1300 - One Valley Square
 Acreage 8300* Charleston, WV 25301
- 9) FIELD SALE (IF MADE) TO:
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name D. Craig Duckworth 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address P. O. Box 454 Name U.S. Steel Mining Company, Inc.
Mt. Lookout, WV 26070 Address 13905 MacCorkle Ave., B.S.
Chesapeake, WV 25315
- 15) PROPOSED WORK: Drill X / Drill deeper _____ / Redrill _____ / Fracture or stimulate X /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 17) Estimated depth of completed well, 6905' feet top of salt sand
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: 540 (open mine), 570, Is coal being mined in the area? Yes _____ / No X /
720

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	10	H-40	34	X		30	30	30 sbs	Kinds
Fresh water									
Coal	11 3/4	H-40	42	X		390	390	Circulate	Sizes
Intermediate	8 5/8	K-55	24	X		2265	2265	Circulate	
Production	4 1/2	K-55	11.6	X		6905	6905	As Required	Depths set
Tubing									
Liners									Perforations: Top Bottom

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Katherine Kay Schreiber
 My Commission Expires October 19, 1986

Signed: John H. Burkett
 Its: Regional Civil Engineer

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-081-0627 Date January 4 1983

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector.** (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires September 4, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>Blanket</u>	<u>Ray</u>	<u>Asnland</u>	<u>Asnland</u>	<u>1003.8</u>

John H. Burkett
 Administrator, Office of Oil and Gas