

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION ELEV. 1046'

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) Richard Bidans
 R.P.E. 5580 L.L.S. _____

PLACE SEAL HERE

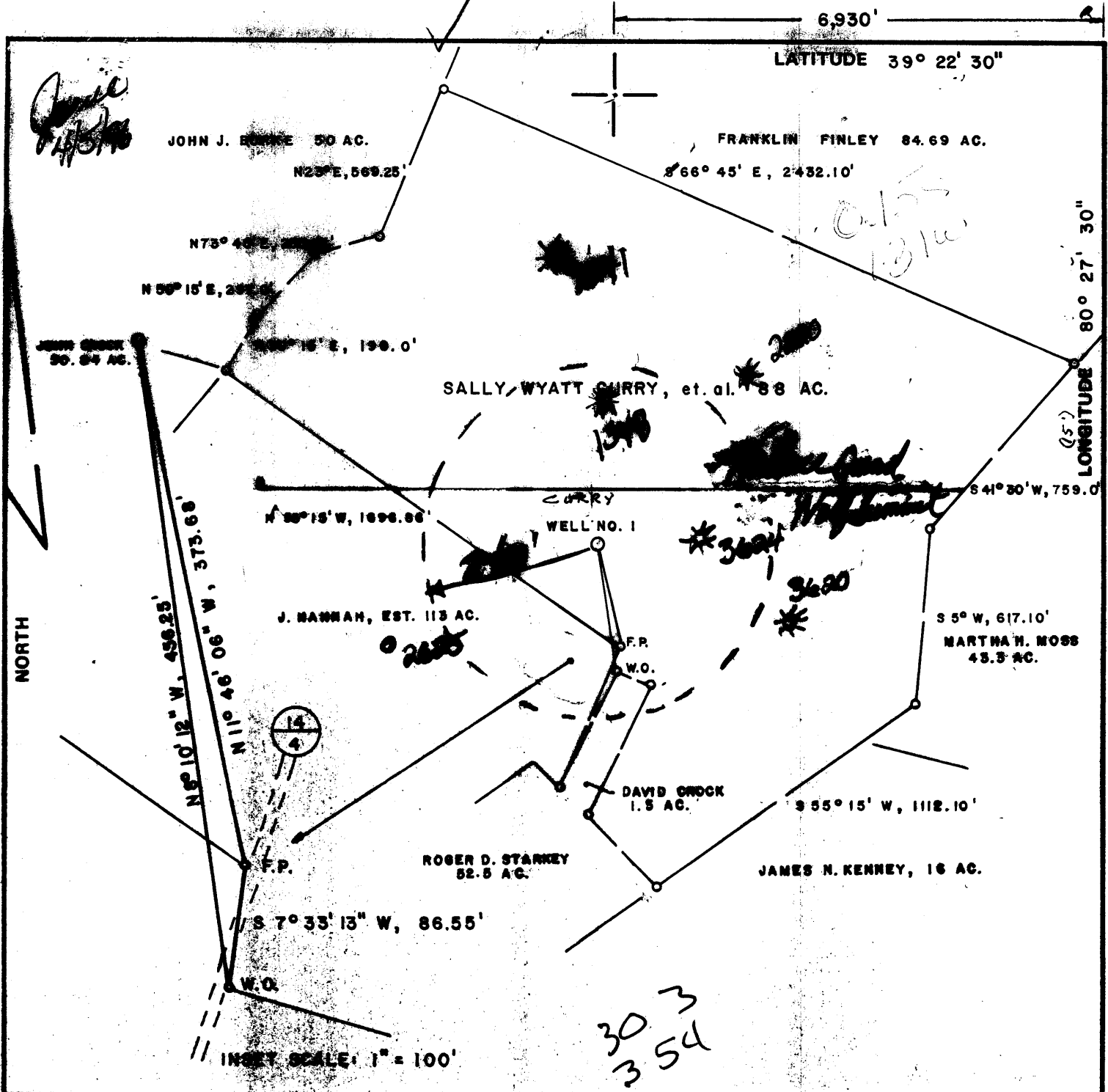
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1102 WATER SHED LITTLE ROCKCAMP RUN
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WOLF SUMMIT 7.5 MINUTE Clarkburg 15' WC
 SURFACE OWNER ELSIE M. MARTIN ACREAGE 23.93
 OIL & GAS ROYALTY OWNER SALLY WYATT CURRY, et. al. LEASE ACREAGE 88
 LEASE NO. _____
 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 FORMATION BENSON. ESTIMATED DEPTH 5200'
 WELL OPERATOR HYDROCARBON ENERGIES DESIGNATED AGENT ALVIN SORCAN
 ADDRESS RT. 4 BOX 444 ADDRESS RT. 4, BOX 444
BUCKHANNON W.V. 26201 BUCKHANNON W.V. 26201

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE NOVEMBER 4, 19 81
 OPERATOR'S WELL NO. CURRY NO. 1
 API WELL NO. 47 - 033 - 2693
 STATE COUNTY PERMIT

DEC 4 1981



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECTION
 ELEV. 1046'

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) Richard B. Davis
 R.P.E. 5580 L.L.S. _____

PLACE SEAL HERE

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



DATE NOVEMBER 4, 1981
 OPERATOR'S WELL NO. CURRY NO. 1
 API WELL NO. 47-033-02693-7
 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 ___ SHALLOW X
 LOCATION: ELEVATION 1102 WATER SHED LITTLE ROCKCAMP RUN
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WOLF SUMMIT 7.5 MINUTE Clark WC
 SURFACE OWNER ELSIE M. MARTIN ACREAGE 23.93
 OIL & GAS ROYALTY OWNER SALLY WYATT CURRY, et. al. LEASE ACREAGE 88
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) See accompanying Plug Seal Report Remove Plug Convert to water
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION BENSON ESTIMATED DEPTH 5200' Canson, Bellew, Spawthorpe

Dominion Appalachian Development Inc.
 P.O. Drawer R
 Jane Lew, WVA. 26378-0080

IGNATED AGENT
 ADDRESS

John T. Haskins
 Same Address
 PH: 304-884-7881



IV-35
(Rev 8-81)

Date 1-4-81
Operator's
Well No. 114-H
Farm S. Curry #1
API No. 47-033-2693

RECEIVED State of West Virginia

JAN 15 1982

Department of Mines
Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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 / Shallow /)

LOCATION: Elevation: 1102 Watershed LITTLE ROCKCAMP RUN
District: SAROIS County HARRISON Quadrangle WOLF Summit

COMPANY HYDROCARBON ENERGIES, INC.
ADDRESS Rt 4, BUCKHANNON, W.V.
DESIGNATED AGENT ALVIN SORCAU
ADDRESS Rt 4, BUCKHANNON, W.V.
SURFACE OWNER ELSIE MARTIN
ADDRESS Rt 1, SAROIS, W.V.
MINERAL RIGHTS OWNER S. WYATT CURRY (REAL)
ADDRESS Rt 1 Box 19, BRIDGEPORT, W.V.
OIL AND GAS INSPECTOR FOR THIS WORK STEVE CASEY ADDRESS JANE LEW, W.V.
PERMIT ISSUED 11-12-81
DRILLING COMMENCED 11-12-81
DRILLING COMPLETED 11-23-81

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8		1331	To SURFACE
7			
5 1/2			
4 1/2		5121	775 SLS (1800-5121)
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION BENSON Depth 5010 feet

Depth of completed well 5282 feet Rotary X / Cable Tools

Water strata depth: Fresh feet; Salt feet

Coal seam depths: 353 Is coal being mined in the area? No

OPEN FLOW DATA P.S. and pay 3574-3629 Sand, 3987-3917 Ball, 5009-5019 Benson

Producing formation BENSON, BALLTOWN, SPECULY pay zone depth 3574-5022 feet

Gas: Initial open flow 47 Mcf/d Oil: Initial open flow SHOW Bbl/d

Final open flow 189 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 14 hours DAYS

Static rock pressure 1500 psig (surface measurement) after 14 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 Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

FEB 01 1982

(Continue on reverse side)

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

PERFS	BRK'D	FLUID	SAND	PSI	RATE	ISIP	Form.
12-3-81	FRAC	3 STAGE	BENSON, BALLTOWN, SPEECHLY				
5009-19	2500*	441	6000	1985	30	1900	BENSON
3887-3919	2000*	602	8000	2562	33	1800	BALLTOWN
3574-3629	1900*	477	6000	2588	32.5	1700	SPEECHLY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
SHALE	G	S	1330	1400	
SAND	W	H	1400	1470	
SHALE	G	S	1470	1730	
SAND + SILT	BR	M	1730	1920	
BIG LIME	G	H	1920	1985	
BIG INJUN	W	H	1985	2090	
SHALE	G	S	2090	2640	
SAND + SILT	W	H	2640	2860	φ @ 2790
SHALE	G	S	2860	3520	
SILT	BR	S	3520	3580	
SHALE	G	S	3580	3885	
SILT	BR	S	3885	3995	
SHALE	G	S	3995	5005	
BENSON	BR	M	5005	5050	φ @ 5020
SHALE	G	S	5050	5282	
TD			5282		

(Attach separate sheets as necessary)

Well Operator

By: Alvin [Signature]

Date: _____

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 ..., encountered in the drilling of a well."

JUL 0 1 1996

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

Permitting Office of Oil & Gas Well Operator's Report of Well Work

Farm name: TIPTON, ROBERT W. Operator Well No.: SALLY CURRY #1

LOCATION: Elevation: 1,102.00 Quadrangle: WOLF SUMMIT

District: SARDIS County: HARRISON
Latitude: 800 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 6930 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: DOMINION APPALACHIAN DEVE
P. O. DRAWER R
JANE LEW, WV 26378-0000

Agent: JOHN T. HASKINS

Inspector: TIM BENNETT
Permit Issued: 04/10/96
Well work Commenced: 06/17/96
Well work Completed: 06/17/96

Verbal Plugging
Permission granted on: _____
Rotary _____ Cable _____ Rig
Total Depth (feet) _____
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N)? _____
Coal Depths (ft): _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
* SEE ORIGINAL WR-35			

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2564-2800'
Gas: Initial open flow Show MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 158 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 8 Hours
Static rock Pressure 460 psig (surface pressure) after 24 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 _____ Bbl/d
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.

Larry J. Cavallo

For: DOMINION APPALACHIAN DEVELOPMENT, INC.

By: LARRY J. CAVALLO, SENIOR GEOLOGIST

Date: 6/27/96

JUL 1 1996

1 STAGE(S)	GELLED WATER	FRAC	DATE 6/17/96		
ZONES	PERFS	HOLES	BBL	BP	ISIP
ORDON	2564-2800	13	397	2300	2460

FORMATION	COLOR	HARD/SOFT	TOP	BOTTOM	REMARKS
-----------	-------	-----------	-----	--------	---------

SEE PREVIOUS WR-35 FILING



STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow ___ /
LOCATION: Elevation: 1102 Watershed: Little Rock Camp Run
District: Sardis County: Harrison Quadrangle: Wolf Summit

WELL OPERATOR Hydrocarbon Energies, Inc.
Address: Rt. 4, Box 444
Buckhannon, WV 26201

DESIGNATED AGENT Alvin L. Sorcan
Address: Rt. 4, Box 444
Buckhannon, WV 26201

OIL AND GAS ROYALTY OWNER Sally Wyatt Curry(et al)
Address: Rt. 1, Box 19
Bridgeport, WV 26330
Acreage: 88

COAL OPERATOR _____
Address _____

SURFACE OWNER Elsie M. Martin
Address: Rt. 1, Sardis, W.Va.
Acreage: 23.93

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Virginia Tetrick
Address Union National Center
Clarksburg, WV 26302
NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME _____
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Casey
Address Rt. 2, Box 232-D
Jane Lew, WV 26378
Telephone 884-7470

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NOV 12 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed ___ / lease X / other contract ___ / dated _____, 19___, to the undersigned well operator from Sally Wyatt Curry (et al)

(If deed, lease, or other contract has been recorded:)
on 12/25, 1980, in the office of the Clerk of County Commission of Harrison County, West Virginia, in Deed 1098 Book at page 85. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill Deeper ___ / Redrill ___ / Fracture or stimulate ___ / Plug off old formation ___ / Perforate new formation ___ / Other physical change in well (specify) _____

---planned as shown on the work order on the reverse side hereof.
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any changes they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. of Mines. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:

Hydrocarbon Energies, Inc
Well Operator

WEST VIRGINIA OIL AND GAS COMMISSION
1000 MAIN ST., E.
CHARLESTON, WV 25311
PHONE: 334/348-3092

By: Alvin Sorcan
Its: President

BLANKET BOND

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN)

Address

GEOLOGICAL TARGET FORMATION Benson

Estimated depth of completed well 5300 feet. Rotary X / Cable tools /

Approximate water strata depths: Fresh, 40 feet; salt, 650 feet.

Approximate coal seam depths: 350

Is coal being mined in this area: Yes / No XX /

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For Drill-ling, Left in Well), CEMENT FILL UP OR SACKS (Cubic ft.), PACKERS (Kinds, Sizes, Depths set, Perforations: Top, Bottom)

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE,

All conditions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 7-12-82.

Signature of Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the coal operator has complied with all applicable requirements of the West Virginia Code and the governing regularions.

Date: , 19

By:

Its:

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WV Division of
Environmental Protection

MAR 25 1998

033-2693 Frac
033-2693-Frac Issued 04/10/96
Expires 04/10/98

FORM WW-2B

Page ___ of ___

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

21777

- 1) Well Operator: DOMINION APPALACHIAN DEVELOPMENT, INC. 478 50 ³⁷³⁵ (7) 692
- 2) Operator's Well Number: SALLY CURRY #1 3) Elevation: 1102
- 4) Well type: (a) Oil ___ / or Gas X /
(b) If Gas: Production X / Underground Storage ___
Deep ___ / Shallow X /
- Proposed Target Formation(s): GORDON ⁴⁹
- Proposed Total Depth: 5121 feet
- Approximate fresh water strata depths: N/A
- Approximate salt water depths: N/A
- 9) Approximate coal seam depths: 353
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: SEE ATTACHED
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4			30		
Fresh Water						
Coal						
Intermediate	8 5/8		24#	1250	1250 1102'	CTS
Production	4 1/2		10.5#	5300	5300	530 SKS
Tubing						
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

1316/9

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

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WV Division
Environmental Protection
MAR 22 1996
Permitting
Office of Oil & Gas

1) Date: MARCH 12, 1996
2) Operator's well number
SALLY CURRY #1 10860 114 SHHW MICH
3) API Well No: 47 -33 - 21893 - F
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
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 ROBERT W. TIPTON
 - Address RT 1, BOX 185
WALLACE, WV 26448
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 5) (a) Coal Operator:
- Name N/A
 - Address _____
 - (b) Coal Owner(s) with Declaration
 - Name VIRGINIA A. TETRICK ESTATE
 - Address PO BOX 267
CLARKSBURG, WV 26301
 - Name _____
 - Address _____
 - (c) Coal Lessee with Declaration
 - Name N/A
 - Address _____
- 6) Inspector: TIM BENNETT
- Address 737 KARL ST.
WESTON, WV 26452
 - Telephone (304)- 2696167

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 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ 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 22-6 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 DOMINION APPALACHIAN DEVELOPMENT, INC.
 By: [Signature]
 Its: SENIOR VICE PRESIDENT
 Address PO DRAWER R
JANE LEW, WV 26378
 Telephone 304-884-7881

Subscribed and sworn before me this 12TH day of MARCH, 1996
[Signature] Notary Public
 My commission expires MARCH 14, 2000

My Commission Expires Mar. 14, 2000
 [Circular Notary Seal]