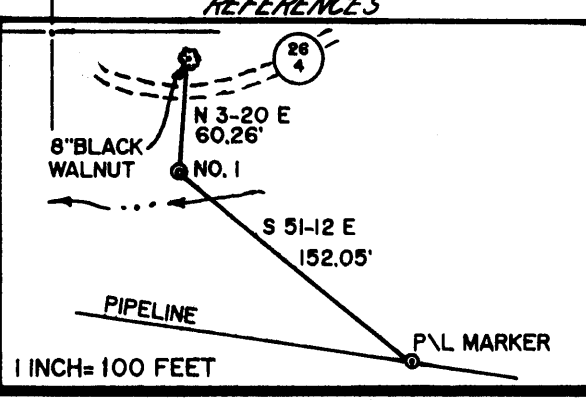
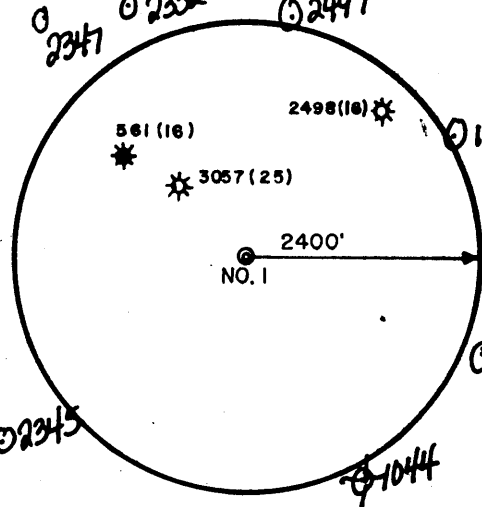
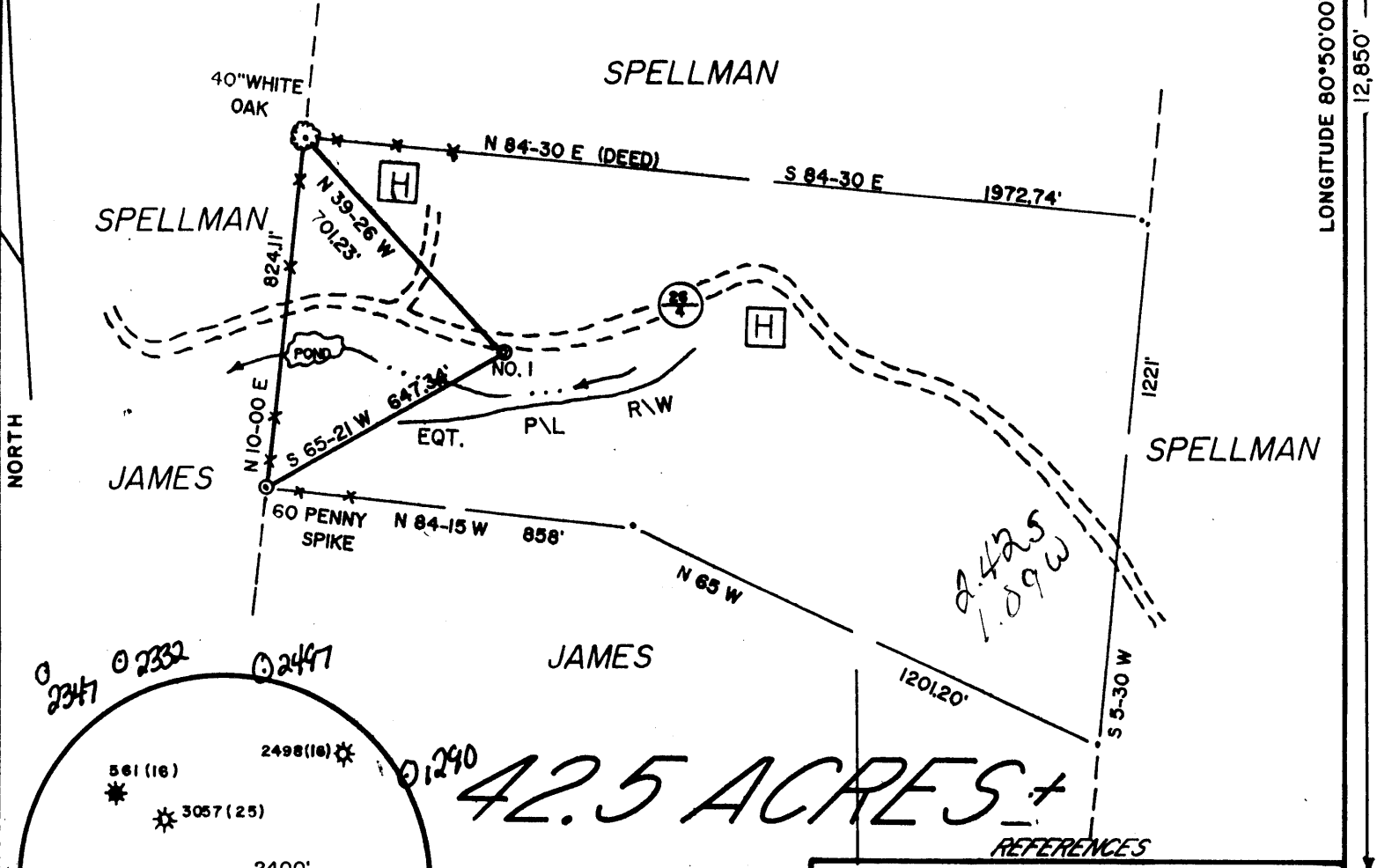


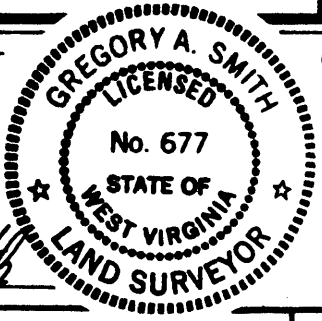
Opmie 9/25/90

HARRIS LEASE WELL NO. 1

LONGITUDE 80°50'00"



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 19, 1990
 OPERATORS WELL NO. HARRIS NO. 1
 API WELL NO. 47 - 017 - 3851-F
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2439 (32-60)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 839' SCALE 1" = 400'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 956' WATERSHED LONG RUN
 DISTRICT CENTRAL I COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER KENT R. SPELLMAN, et. ux. ACREAGE 42.5 SC
 ROYALTY OWNER DANIEL A. HARRIS, HEIRS, et. al. LEASE ACREAGE 42.5
 PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5900'

WELL OPERATOR DEVONIAN APPALACHIAN CO., INC. DESIGNATED AGENT ROBERT ANDERSON
 ADDRESS RT. 1, BOX 114-B, MINERAL WELLS, WV 26150 ADDRESS RT. 1, BOX 114-B, MINERAL WELLS, WV 26150

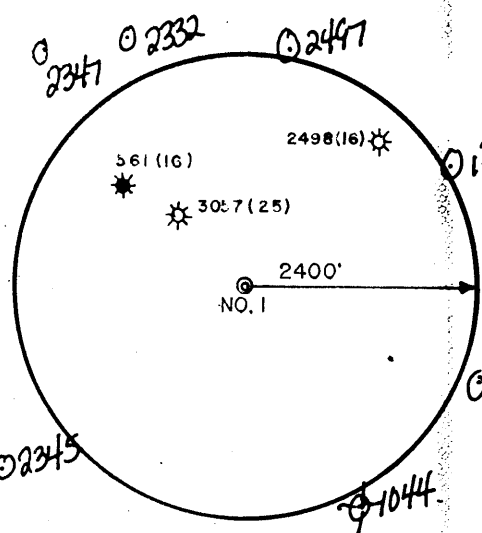
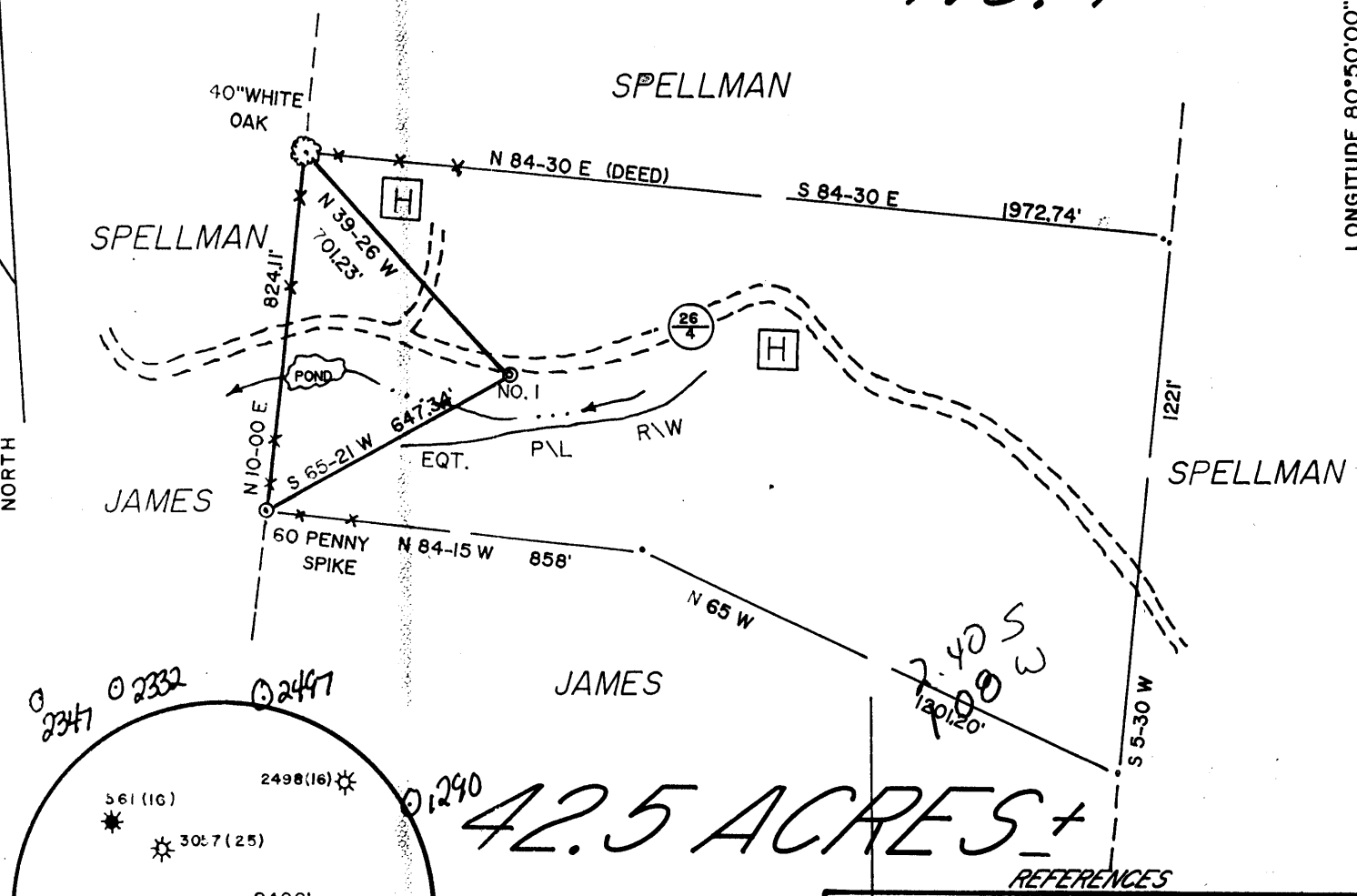
COUNTY NAME DODDRIDGE
 PERMIT 3851

4518

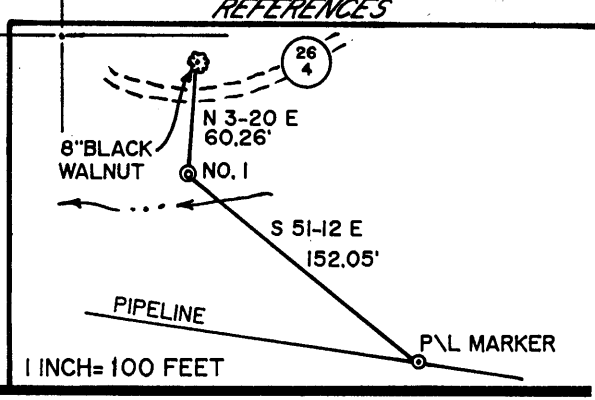
Comie 9/25/90

HARRIS LEASE WELL NO. 1

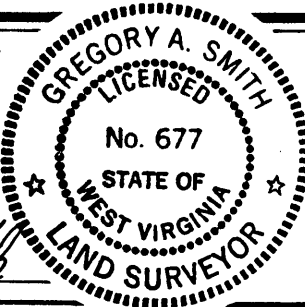
LONGITUDE 80°50'00" N



42.5 ACRES ±



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.



L.L.S. 677 Gregory A. Smith

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE SEPTEMBER 19, 1990
 OPERATORS WELL NO. HARRIS NO. 1
 API WELL NO. 47 - 017 - 3851
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2439 (32-60)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEV. 839' SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

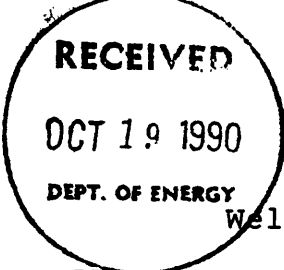
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 956' WATERSHED LONG RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5' SC

SURFACE OWNER KENT R. SPELLMAN, et. ux. ACREAGE 42.5
 ROYALTY OWNER DANIEL A. HARRIS, HEIRS, et. dl. LEASE ACREAGE 42.5

PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5900'

WELL OPERATOR DEVONIAN APPALACHIAN CO., INC. 4518 DESIGNATED AGENT ROBERT ANDERSON
 ADDRESS RT. 1, BOX 114-B, MINERAL WELLS, WV 26150 ADDRESS RT. 1, BOX 114-B, MINERAL WELLS, WV 26150



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

Well Operator's Report of Well Work

Farm name: SPELLMAN, KENT & DONNA Operator Well No.: HARRIS #1

LOCATION: Elevation: 956.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
 Latitude: 12850 Feet South of 39 Deg. 20Min. 0 Sec.
 Longitude 5720 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: DEVONIAN APPALACHIAN COMP
 ROUTE 1, BOX 114B
 MINERALWELLS, WV 26150-0114

Agent: ROBERT A. ANDERSON

Inspector: MIKE UNDERWOOD
 Permit Issued: 09/25/90
 Well work Commenced: 9/29/90
 Well work Completed: 10/5/90
 Verbal Plugging _____
 Permission granted on: _____
 Rotary Cable Rig _____
 Total Depth (feet) 5995'
 Fresh water depths (ft) 415'

Salt water depths (ft) 1385'

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
1 3/4	132'	132'	38 CSR 18-11.3
8 5/8	1437'	1437'	38CSR 18-11.2
4 1/2	5995'	5995'	505 sks

OPEN FLOW DATA

Marcellus, Alexander, Benson 5945, 5120
 4818, 4415

Producing formation Riley Pay zone depth (ft) _____
 Gas: Initial open flow 1400 MCF/d Oil: Initial open flow 1 Bbl/d
 Final open flow 800 MCF/d Final open flow 1 Bbl/d
 Time of open flow between initial and final tests 24 Hours
 Static rock Pressure 1800 psig (surface pressure) after 12 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.

For: DEVONIAN APPALACHIAN COMPANY, INC.

By: Robert A. Anderson
 Date: 10/11/90

OCT 22 1990

Elk/Ball?

Marcellus: Perf 5945-48:6, 5904:2.5900:2, 5861-64:5
 Fraced with 65 qual N₂ foam, 5,000 80/100 Ottawa and 17,000 20/40 Ottawa
 Alexander: 5105-5132: 16 shots; fraced with 65 qual N₂ foam, 5,000# 80/100
 Ottawa and 30,000# 20/40 Ottawa
 Benson: 4817-20: 8, 4768:2, 4744-45:4, 4737:2, 4725:2, 4687:2 shots
 Fraced with 65 qual foam, 5,000# 80/100 and 23,000# 20/40 Ottawa
 Riley: Perfed 4436-38:4, 4412-14:6, 4396-98:4, 4327-29:4 and 4305: 2 shots
 foamed 250 gal 28% HCl, 75 qual, 5,000# 80/100 and 30,000# 20/40 Ottawa

Depth	Strata	Notes
0-1852	sand & shale	
1852-1946	Lime	
1946-1994	Big Injun	
1994-3230	sand & shale	
3230-3296	Warren	Oil stains
3296-4414	sand & shale	
4414-4442	Riley	
4442-4814	sand & shale	
4814-4822	Benson	
4822-4999	shale	
4999-5134	Alexander	
5134-5995	Shale	

11 307

FEB 1 9 93

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: SPELLMAN, KENT & DONNA Operator Well No.: HARRIS 1

LOCATION: Elevation: 956.00 Quadrangle: WEST UNION

District: CENTRAL County: DODDRIDGE
Latitude: 12850 Feet South of 39 Deg. 20Min. 0 Sec.
Longitude 5720 Feet West of 80 Deg. 50 Min. 0 Sec.

Company: DEVONIAN APPALACHIAN COMP
ROUTE 1, BOX 114B
MINERAL WELLS, WV 26150-0114

Agent: ROBERT A. ANDERSON

Inspector: MIKE UNDERWOOD
Permit Issued: 12/10/92
Well work Commenced: 1/25/93
Well work Completed: 1/30/93
Verbal Plugging _____
Permission granted on: 1/11
Rotary 114 Cable _____ Rig
Total Depth (feet) 114
Fresh water depths (ft) _____
Recompletion
Salt water depths (ft) _____

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

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
NO CHANGE			
SEE PREVIOUS WR-35			

OPEN FLOW DATA

Producing formation Dominion shale Pay zone depth (ft) 3272-3737
Gas: Initial open flow 200 MCF/d Oil: Initial open flow 2 Bbl/d
Final open flow 50 MCF/d Final open flow 1 Bbl/d
Time of open flow between initial and final tests 4 Hours
Static rock Pressure 840 psig (surface pressure) after 24 Hours

Second producing formation WEIR Pay zone depth (ft) 2160-2240
Gas: Initial open flow 400 MCF/d Oil: Initial open flow 2 Bbl/d
Final open flow 125 MCF/d Final open flow 1 Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 840 psig (surface pressure) after 25 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: DEVONIAN APPALACHIAN COMPANY, INC.

Reviewed TMG
Recorded _____

By: Robert A. Anderson
Date: 2-17-93

*See original WR-35 for well log

Ha #1

1st Stage: 3737 2 holes, 3685-87 4 holes, 3423-25 4 holes, 3288-90 4 holes, 3272-75 6 holes. Frac with 500 ga 22% HCl, 260 sks 20/40 sand, 567 bbl H2O and 70,560 SCF N2

2nd Stage: Perforate 2256-58 4 holes, 2242-44 4 holes, 2178-81 4 holes, 2161-65 6 holes. Frac with 500 gal 22% HCl, 500 sks 20/40 Ottawa sand, 625 bbl H2O, 97,650 SCF N2.

DFT = 436
OF = 436

017-3851 Frac.

Issued 12/10/92

Expires 12/10/94

Page of

DEC 07 92

FORM WW-2B

Permitting Office of Oil & Gas

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

- 1) Well Operator: Devonian Appalachian Co Inc #13530 (1) 670
2) Operator's Well Number: HARRIS #1 3) Elevation: 956
4) Well type: (a) Oil / or Gas N
(b) If Gas: Production N / Underground Storage / Deep / 433 Shallow /
5) Proposed Target Formation(s): Bellman, Warren, Sh, Stray, Weir, Big Enjeer, Blue Mountain
6) Proposed Total Depth: N/A feet
7) Approximate fresh water strata depths: N/A
8) Approximate salt water depths: N/A
9) Approximate coal seam depths: N/A
10) Does land contain coal seams tributary to active mine? Yes / No X
11) Proposed Well Work: Set temporary plug, frac New zones, Knock out Plug and Comingle all zones
12)

CASING AND TUBING PROGRAM

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

PACKERS : Kind Sizes Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP

Handwritten number 4335/40

DEC 0 7 1992
Office of Oil & Gas

- 1) Date: 12/1/92
- 2) Operator's well number Address # 1
- 3) API Well No: 47 - 017 - 3851 - Fra
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 Ken & Donna Spellman
Address Rt 1 Box 101
Greenwood WV. 26360
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
 - Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt 2 Box 135
Salem, WV. 26426
Telephone (304)- 782-1043

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 _____ 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 Dominion Appalachian Co. Inc.
By: Robert P. Anderson
Its: President
Address Rt 1 Box 114 B
Minerals Wells, WV 26150
Telephone (304) 489-9314

Subscribed and sworn before me this 1st day of Dec., 1992

Lynda R. Sheets Notary Public

My commission expires Nov. 29, 1993

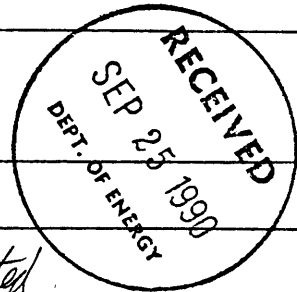
Issued 9/25/90 017-3851
 Expires 9/25/92

FORM WW-2B

Page ___ of ___

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

- 1) Well Operator: Devonian Appalachian Co., Inc. 13530 (1) 670
- 2) Operator's Well Number: Harris #1 3) Elevation: 956'
- 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: 5900" feet *240'*
- 7) Approximate fresh water strata depths: 30' 80'
- 8) Approximate salt water depths: 1080' *1400'*
- 9) Approximate coal seam depths: N/A *OK None Reported*
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: *Drill & Stimulate New Well*
- 12)



CASING AND TUBING PROGRAM

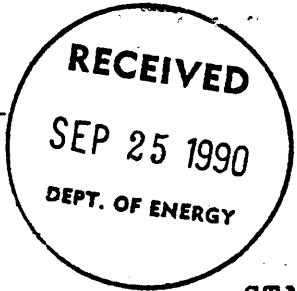
TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water	11 3/4	H 40	22#	150	150 <i>CTS</i>	38CSR-18-11-3
Coal						
Intermediate	8 5/8	J-55	28#	1100	1100 <i>CTS</i>	38CSR-18-11-2
Production	4 1/2	J-55	10.5#	1250	5250 (38-18-11-1)	
Tubing						
Liners						

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 *C.D. Blanket* Agent



- 1) Date: 9/25/90
- 2) Operator's well number
Harris #1
- 3) API Well No: 47 - 017 - 3851
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:
 - m (a) Name Kent & Donna Spellman
Address Rt 1 Box 101
Greenwood, WV. 26360
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Mike Underwood
Address Rt 2 Box 135
Salem, WV. 26426
Telephone (304)- 782-1043

- 5) (a) Coal Operator:
 - Name N/A
 - Address _____
- (b) Coal Owner(s) with Declaration
 - Name _____
 - Address _____
- (c) Coal Lessee with Declaration
 - Name _____
 - Address _____

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 _____ 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 Devonian Appalachian Co., Inc.
 By: [Signature]
 Its: President
 Address Rt 1 Box 114 B
Mineral Wells, WV. 26150
 Telephone (304)489-9314

Subscribed and sworn before me this _____ day of _____, 19____

My commission expires _____ Notary Public