

FULTON 1200 ac. LEASE

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION STEWARTS CREEK BRIDGE, ELEV. 725'

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) Mark H. Hornum
 R.P.E. _____ L.L.S. 763

PLACE SEAL HERE

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



DATE NOV. 9, 19 83
 OPERATOR'S WELL NO. FULTON No.9
 API WELL NO. _____
47 - 821 - 4127-F
 STATE COUNTY PERMIT

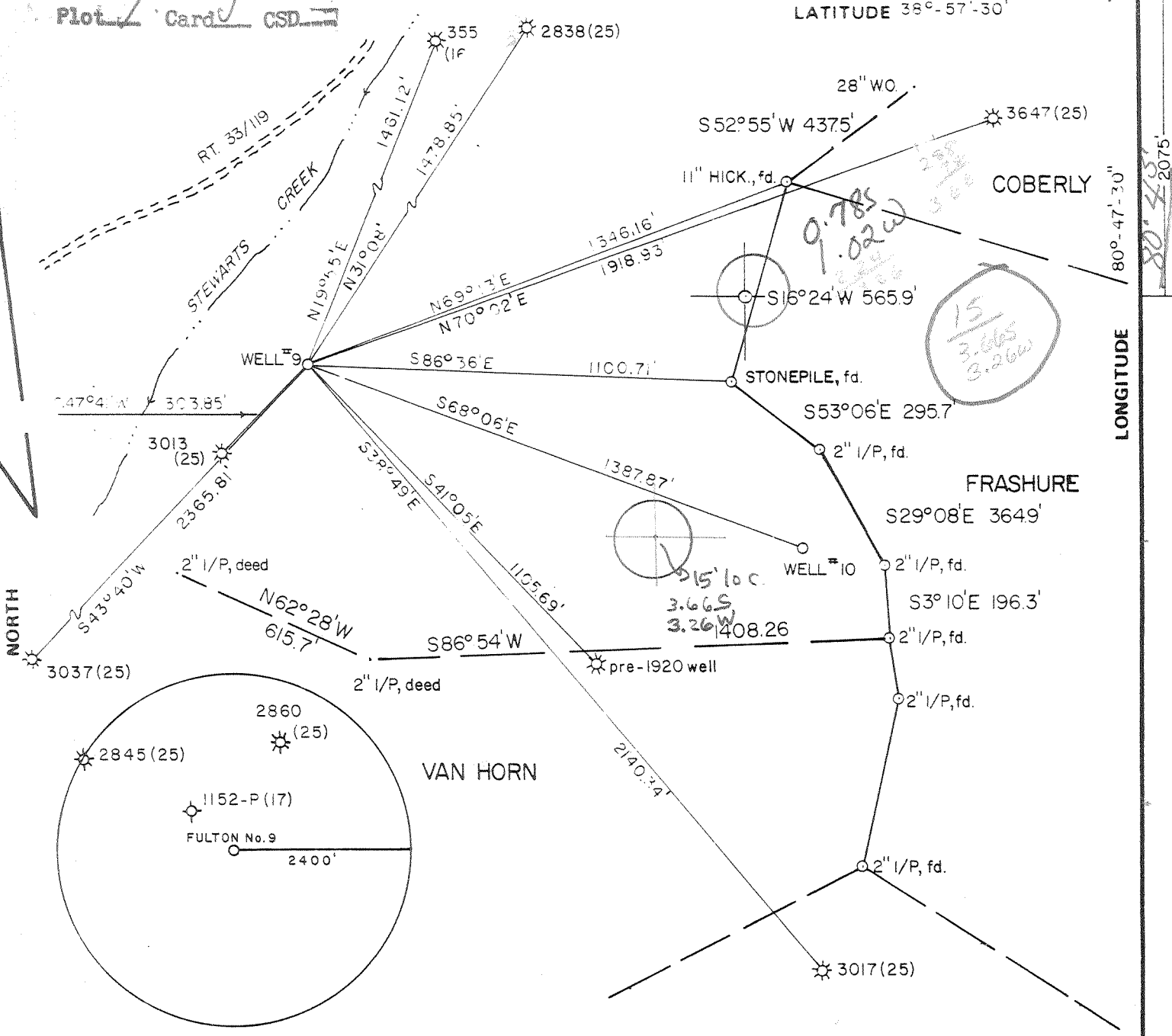
**STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION**

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 859 ft. WATER SHED STEWARTS CREEK
 DISTRICT GLENVILLE COUNTY GILMER
 QUADRANGLE GLENVILLE 372 050 NE3
 SURFACE OWNER WACO OIL & GAS CO. ACREAGE 98.95
 OIL & GAS ROYALTY OWNER E.D. FULTON, et. al. LEASE ACREAGE 1200
 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) _____

SEP 22 1986

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG oww - 6-6 Glenville North (182)
 TARGET FORMATION BENSON-ELK 269 ESTIMATED DEPTH 4800 ft.
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT Mr. DONALD SUPCOE - DEEPWELL
 ADDRESS P.O. BOX "N", GLENVILLE, WV. 26351 ADDRESS P.O. BOX "N" GLENVILLE WV 26351



FULTON 1200 ac. LEASE

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 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION STEWARTS CREEK BRIDGE, ELEV. 725'

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 (SIGNED) Mark H. Hornish
 R.P.E. _____ L.L.S. 763

PLACE SEAL HERE

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



DATE NOV. 9, 19 83
 OPERATOR'S WELL NO. FULTON No.9
 API WELL NO. 47-821-4127
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Re-vised Estimated Depth

WELL TYPE OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION ELEVATION 359 ft. WATER SHED STEWARTS CREEK
 DISTRICT GLENVILLE COUNTY GILMER
 QUADRANGLE GLENVILLE 15' NE
 SURFACE OWNER WACO OIL & GAS CO. ACREAGE 98.95
 OIL & GAS ROYALTY OWNER E.D. FULTON, et. al. LEASE ACREAGE 1200
 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 CHERT ESTIMATED DEPTH 6300'
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT Mr. DONALD SUPCOE
 ADDRESS P.O. BOX "N", GLENVILLE, WV. 26351 ADDRESS P.O. BOX "N", GLENVILLE, WV. 26351



RECEIVED
DEC 18 1986

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

Date December 16, 1986
Operator's Well No. Fulton #9
Farm E.D. Fulton
API No. 47 - 021 - 4127 F

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 ___ / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 859' Watershed Stewarts Creek
District: Glenville County Gilmer Quadrangle Glenville

COMPANY Eastern American Energy Corp.

ADDRESS P.O. Box N, Glenville, WV 26351

DESIGNATED AGENT Donald C. Supcoe

ADDRESS Same

SURFACE OWNER Waco Oil & Gas

ADDRESS Glenville, WV

MINERAL RIGHTS OWNER Susan Hays Ashbrook

ADDRESS Glenville, WV

OIL AND GAS INSPECTOR FOR THIS WORK Craig
Duckworth ADDRESS Box 107, Davisson Rt. Gassaway, WV 26624

PERMIT ISSUED 09-17-86

DRILLING COMMENCED 10-23-86

DRILLING COMPLETED 12-05-86

IF APPLICABLE: PLUGGING OF DRY HOLE ON 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.			
13-10"	30	30	0
9 5/8			
8 5/8	788'	788'	219
7			
5 1/2			
4 1/2	6586	6586	800
3			
2 3/8"		6402	
Liners used			

GEOLOGICAL TARGET FORMATION Benson, Elk, Comingled Depth 4246-4791 feet

Depth of completed well 6649 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 90 feet; Salt X feet

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

OPEN FLOW DATA

Producing formation Oriskany ^{zone orig. comp.} Benson, Elk ^{new zones completed} Pay zone depth 4246' 6444' feet

Gas: Initial open flow 300 Mcf/d ^{Comingled} Oil: Initial open flow NA Bbl/d

Final open flow 531 Mcf/d Final open flow NA Bbl/d

Time of open flow between initial and final tests 8 hours

Static rock pressure 650 psig (surface measurement) after 12 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

(Continue on reverse side)

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

1. Perforate Elk with 13 -.39 holes 4602' - 4791' pump 20 tons of CO₂ with 500 gals. 15% D.I. HCl. Flush with N₂.
2. Perforate Benson with 8 -.41 holes 4346' - 4356' Pump 50,000 lbs 20140 sand with 500 glas 15% D.I. HCl. Total job 583 bbls. pump N₂ at 150 SCF throughout the job.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Earth			0	2	
Sand and Shale			2	10	
Red Rock & Shale			10	25	
Sand & Shale			25	30	
Red Rock			30	44	
Sand & Shale			44	60	
Red Rock & Shale			60	146	Fresh Water @ 90'
Sand & Shale			146	180	
Shale & Red Rock			180	212	
Sand & Shale			212	531	
Sand			531	1253	
Sand & Lime			1253	1259	
Sand			1259	1446	
Little Lime			1446	1477	
Sand & Shale			1477	1492	
Big Lime			1492	1580	
Injun			1580	1655	
Sand & Shale			1655	1778	
Line & Sand			1778	1787	
Sand & Shale			1787	1864	
Devonian Shale			1864	4340	
Benson			4340	4368	
Shale			4368	4600	
Elk			4600	4800	
Shale			4800	6145	
Tully			6145	6170	
Marcellus			6170	6214	
Huntersville Chert			6214	6438	
Oriskany			6438	6538	
Helderberg			6538	6649	
		T.D.	6649		Gas @ TD 32/10 - 2" W/W

(Attach separate sheets as necessary)

Eastern American Energy Corporation
Well Operator

By: Rick Hoffinger
Date: 12/16/88

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."



Date December 29, 1983
 Operator's Well No. FULTON #9
 Farm E. D. Fulton
 API No. 47 - 021 - 4127

RECEIVED
 State of West Virginia
 Department of Mines
 Oil and Gas Division
 MAR 12 1984

OIL & GAS DIVISION
DEPT. OF MINES
 WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE
 FEB 5 - 1984

RECEIVED

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

LOCATION: Elevation: 859' Watershed Stewart's Creek
 District: Glenville County Gilmer Quadrangle Glenville 7.5'

COMPANY Eastern American Energy Corporation

ADDRESS P.O. Box N, Glenville, WV 26351

DESIGNATED AGENT Donald C. Supcoe

ADDRESS P. O. Box N, Glenville, WV 26351

SURFACE OWNER WACO Oil & Gas

ADDRESS Glenville, WV 26351

MINERAL RIGHTS OWNER Susan Hays Ashbrook

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK

Deo Mace ADDRESS Rt. 1, Box 65 Sand Ridge, WV 25274

PERMIT ISSUED 11-17-83

DRILLING COMMENCED 11-19-83

DRILLING COMPLETED 12-1-83

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

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-1/2 11" Cord.	20	0	---
13-10"			
9 5/8			
8 5/8	788'	788'	219 cu. ft.
7			
5 1/2			
4 1/2	6586	6586'	800 cu. ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Chert Depth 6649 feet

Depth of completed well 6649 feet Rotary x / Cable Tools _____

Water strata depth: Fresh 90 feet; Salt _____ feet

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

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 6444' ⁶⁵¹⁸ feet

Gas: Initial open flow --- Mcf/d Oil: Initial open flow _____ Ebl/d

Final open flow 400 Mcf/d Final open flow _____ Ebl/d

Time of open flow between initial and final tests -- hours

Static rock pressure 1985 psig (surface measurement) after 48 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:

MAR 20 1984

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

Perforated Oriskany from 6444' to 6518'. Fract with 30,000 lbs. 30/100 sand, 36,000 lbs. 20/40 sand, 106,000 scf of N₂, 500 gals. 15% HCl and 35000 gals. 28% HCl.

Total Fluid 728 Bbls.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Earth			0	2	
Sand and Shale			2	10	
Red Rock & Shale			10	25	
Sand & Shale			25	30	
Red Rock			30	44	
Sand & Shale			44	60	
Red Rock & Shale			60	146	Fresh Water @ 90'
Sand & Shale			146	180	
Shale & Red Rock			180	212	
Sand & Shale			212	531	
Sand			531	1253	
Sand & Lime			1253	1259	
Sand			1259	1446	
Little Lime			1446	1477	
Sand & Shale			1477	1492	
Big Lime			1492	1580	
Injun			1580	1655	
Sand & Shale			1655	1778	
Lime & Sand			1778	1787	
Sand & Shale			1787	1864	
Devonian Shale			1864	4340	
Benson			4340	4368	
Shale			4368	4600	
Elk			4600	4800	
Shale			4800	6145	
Tully			6145	6170	
Marcellus			6170	6214	
Huntersville Chert			6214	6438	
Oriskany			6438	6538	
Helderberg			6438	6649	
		T.D.	6649		Gas @ TD 32/10 - 2" W/W

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: [Signature] Vice President
Date: 12/29/83

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: August 27, 1986
 2) Operator's Well No. Fulton #9 WVGIL001209
 3) API Well No. 47 - 021 - 4127 - F
 State County Permit

7/85 RECEIVED NETWORK SEP 12 1986

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

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 859' Watershed: Stewarts Creek
 District: Glenville, 2593 County: Gilmer Quadrangle: Glenville 372
 6) WELL OPERATOR Eastern American CODE: 14980 7) DESIGNATED AGENT Donald C. Supcoe
 Address Energy Corp., P.O. Box N, Glenville, WV 26351 Address P.O. Box N, Glenville, WV 26351
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Craig Duckworth
 Address Box 107, Davisson Rt. Gassaway, WV 26624
 9) DRILLING CONTRACTOR: Name Unknown
 Address _____
 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 11) GEOLOGICAL TARGET FORMATION, Oriskany EIK/BENSON 43%
 12) Estimated depth of completed well, 6652 4340, 4600 feet
 13) Approximate strata depths: Fresh, 200 feet; salt, 200 feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No

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			
Conductor	20	J-55	94		X	25	---		Kinds	
Fresh water	8 5/8	CW	20	X		788	788	Surface	Sizes	
Coal										
Intermediate										
Production	4 1/2	J-55	10.5	X		6596	6596	650 sks	Depths set	
Tubing	2 3/8	J-55	4.7	X		6402	6402	---		
Line									Perforations:	
									Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4127-F Date September 17 19 86

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 September 17, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WDGP	S&E	Other
	<u>ALB</u>	<u>AS</u>	<u>AS</u>	<u>3714</u> <u>144</u>	<u>AS</u>	<u>AS</u>	

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

John Johnston by Jene Smith
 Director, Division of Oil and Gas File



1) Date: October 25, 19 83
 2) Operator's Well No. Fulton #9
 3) API Well No. 47 - 021 - 4127
 State County Permit

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 / Shallow X)
 5) LOCATION: Elevation: 859' Watershed: Stewarts Creek
 District: Glenville County: Gilmer Quadrangle: Glenville 7.5
 6) WELL OPERATOR Eastern American Energy Corp. 7) DESIGNATED AGENT Donald C. Supcoe
 Address P. O. Box N Address P. O. Box N
Glenville WV 26351 Glenville, WV 26351
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace Name S. W. Jack
 Address Rt. 1, Box 65 Address Buckhannon, WV
Sand Ridge, WV
 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, Elk
 12) Estimated depth of completed well, 4800 feet
 13) Approximate trata depths: Fresh, 200 feet; salt, same feet.
 14) Approximate coal seam depths: none Is coal being mined in the area? Yes

RECEIVED
NOV 14 1983

OIL & GAS DIVISION

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		
Conductor	20	J55	94		X	25	-0-		Kinds
Fresh water	8 5/8	CW	20	X		400	400	STC 50/50 poz	<u>BY RULE 15.05</u>
Coal									Sizes
Intermediate									
Production	4 1/2	J55	10.5	X		4800	4800	300ft. ³	<u>OR DEP. BY RULE 15.01</u>
Tubing	1 1/2	H-40	2.7	X		--	4400		
Liners									Perforations: Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-021-4127 Date November 17, 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 17, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: LANKET BOND	Agent: <u>ls</u>	Plat: <u>M/M/H</u>	Casing: <u> </u>	Fee: <u>12</u>
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Margaret J. Hass
Administrator, Office of Oil and Gas

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

File