

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION USGS BM Det. Rt. 25 + 25110, 885', USGS New Milton Quad.

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) Wayne D. Houston
R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE April 17, 19 80
OPERATOR'S WELL NO. 4
API WELL NO. _____
47 - 017 - 2716 - P
STATE COUNTY PERMIT

PL. CANCELLED

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 1060' WATER SHED Beechlick Fork
DISTRICT New Milton COUNTY Doddridge
QUADRANGLE New Milton 7.5 VADIS 15'
SURFACE OWNER J. R. Cumpston ACREAGE 380
OIL & GAS ROYALTY OWNER J. R. Cumpston LEASE ACREAGE 380
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) _____

AUG 8 1989

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ELK / ALEXANDER ESTIMATED DEPTH 5500'
WELL OPERATOR East American Energy Corp. DESIGNATED AGENT James C. Recht
ADDRESS P.O. Box N ADDRESS P.O. Box N
Glenville, W. Va. 26351 Glenville, W. Va. 26351

DODD. 2716-P

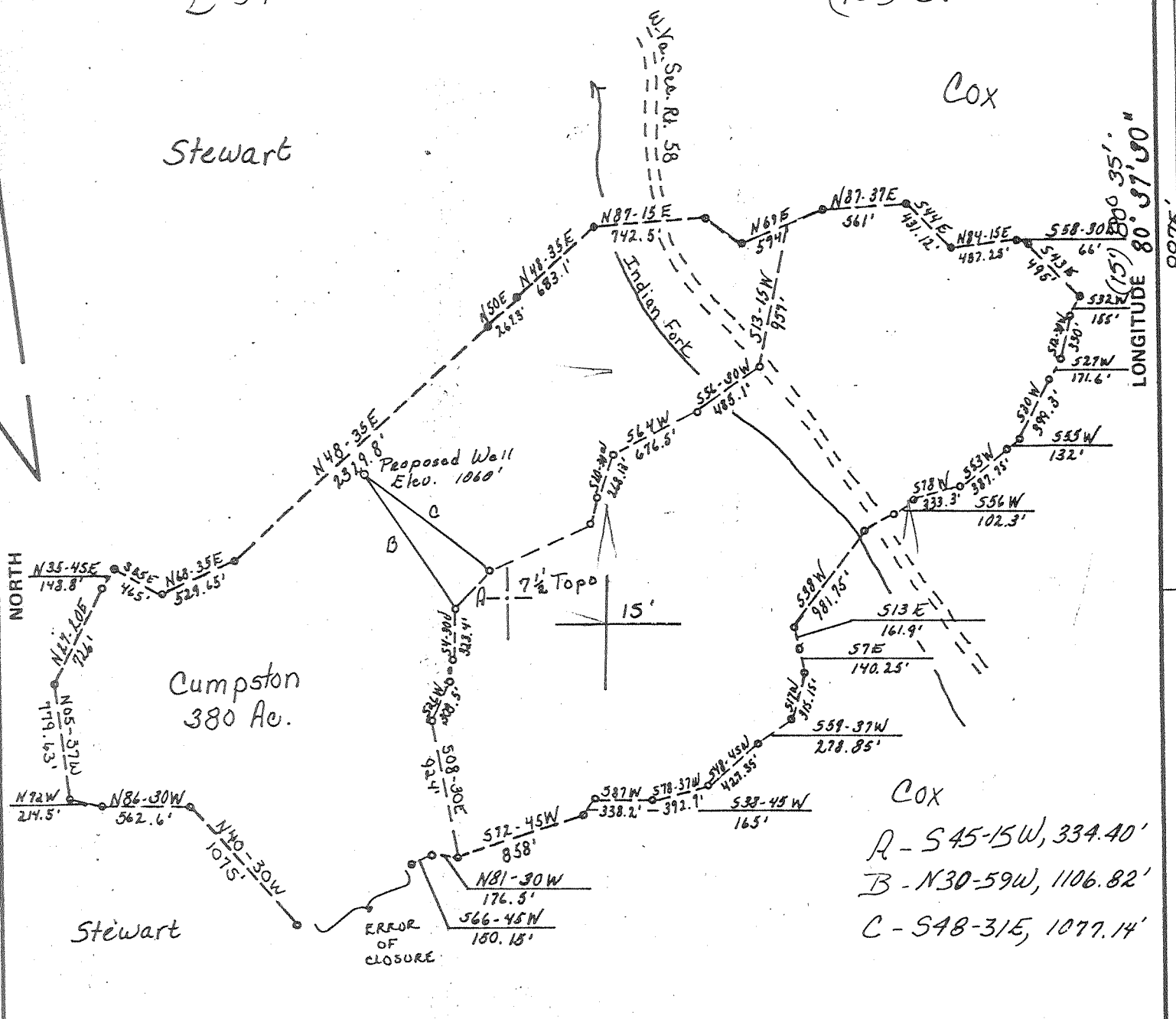
2-51

LATITUDE 39° 12' 30"
(15') 39° 15'

Stewart

Cox

LONGITUDE 80° 37' 30"



Cox
 A - S45-15W, 334.40'
 B - N30-59W, 1106.82'
 C - S48-31E, 1077.14'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM Vct. Rt. 25 + 25110, 885, USGS New Milton Quad.

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) Wayne D. Norton
 R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



DATE April 17, 1980
 OPERATOR'S WELL NO. 4
 API WELL NO. 47-017-2716-P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

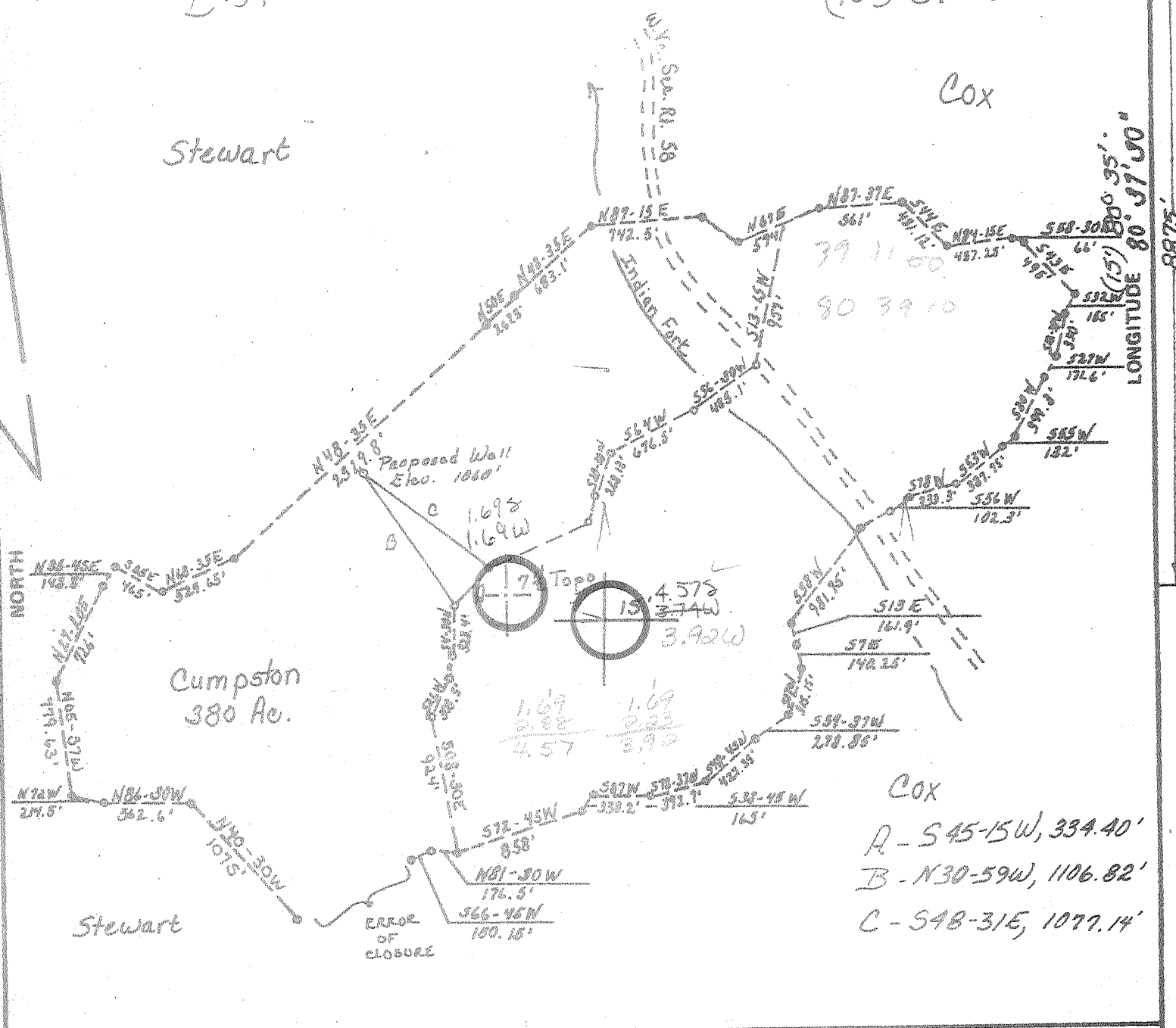
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1060' WATER SHED Beechlick Fork
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE New Milton 7.5 VADIS 15'
 SURFACE OWNER J. R. Cumpston ACREAGE 380
 OIL & GAS ROYALTY OWNER J. R. Cumpston LEASE ACREAGE 380
 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 ELK / ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR East American Energy Corp DESIGNATED AGENT James C. Recht MAY 18 1987
 ADDRESS P.O. Box N ADDRESS P.O. Box N
Glenville, W. Va. 26351 Glenville, W. Va. 26351

2-51

Stewart

Cox

LONGITUDE 80° 37' 00"



COX
 A - S45-15W, 334.40'
 B - N30-59W, 1106.82'
 C - S48-31E, 1077.14'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS B1M Det. Pt. 25 + 25/10, 885' USGS New Milton Quad.

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) James D. Gordon
 R.P.E. _____ L.L.S. 624

PLACE SEAL HERE

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



DATE April 17 1980
 OPERATOR'S WELL NO. 4
 API WELL NO. _____
47 - 017 - 2716
 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 1060' WATER SHED Beechlet Fork
 DISTRICT New Milton COUNTY Doddridge
 QUADRANGLE New Milton 7.5 VAD15 15' NC
 SURFACE OWNER J.R. Cumpston ACREAGE 280
 OIL & GAS ROYALTY OWNER J.R. Cumpston LEASE ACREAGE 280
 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 ELK / ALEXANDER ESTIMATED DEPTH 5500'
 WELL OPERATOR East American Energy Corp. DESIGNATED AGENT James C. Reecht
 ADDRESS P.O. Box N ADDRESS P.O. Box N
Abnville, W. Va. 26021

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

Date August 22, 1981

FORM IV-35
(Obverse)

Operator's
Well No. EA #4 Cumpston

[08-78,

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

API Well No. 47 - 017 - 2716
State County Perm

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

LOCATION: Elevation: 1060 Watershed: Beechlick Fork
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Eastern American Energy Corp. DESIGNATED AGENT James C. Recht
Address P.O. Box N Address P.O. Box N
Glenville, WV 26351 Glenville, WV 26351

PERMITTED WORK: Drill / Convert / Drill deeper / Redrill / Fracture or stimulate
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

PERMIT ISSUED ON 4/30, 1980

OIL & GAS INSPECTOR FOR THIS WORK:

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

Name Paul Garrett
Address 321 Beech Street
Clarksburg, WV 26301

LOGICAL TARGET FORMATION: Elk/Alexander Depth 5500 feet

Depth of completed well, 5506 feet Rotary / Cable Tools

Water strata depth: Fresh, 90 feet; salt, _____ feet.

Coal seam depths: 708-718 Is coal being mined in the area? no

Work was commenced 6/27, 1980, and completed 7-9-80, 1980

LOGGING AND TUBING PROGRAM

LOGGING 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 lb		X	20			Kinds
Casing water	8-5/8	J-55	20 lb	X		1030	1030	Surface	Sizes
Intermediate									
Production	4 1/2	CW	10.5	X		5479	5479	250 sks	Depths set
Logging	1 1/2	H-40	2.5	X		----	4975		Perforations:
									Top Bottom
									5302 5323
									4998 5002

FLOW DATA

Producing formation Benson & Elk Comingled Pay zone depth 5290-5374 & _____ feet
 Gas: Initial open flow, 1.8 Mcf/d Oil: Initial open flow, 4994-5008 Bbl/d
 Final open flow, 900 Mcf/d Final open flow, _____ Bbl/d
 Time of open flow between initial and final tests, 6 hours
 Static rock pressure, 1415 psig (surface measurement) after 24 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 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

AUG 17 1981

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

Perfs: 2-0.39" holes at 5321 5323
 6-0.39" holes between 5302-5306
 6-0.49" holes between 4998 - 5002

FRAC: 1st Stage: 365 BBLS H₂O laden with 20,000 lbs. 50/100 sand 20,000 lbs. 20/40 sand
 15 lbs/1000 gals J-266, FreFlo, F-52, 1%KCl, 500 gals formic acid.
 2nd Stage: 320 BBLS H₂O laden with 15000 lbs. 80/100 sand, 20,000 lbs. 20/40 sand,
 20 lbs./1000 gals J-266, FreFlo, F-52, 1% KCl, 500 gals. 15%HCl.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all free and salt water, coal, oil and gas
Clay			0	5	
Red Rock			5	15	
Shale			15	35	
Sand			35	59	
Red Rock & Shale			59	85	
Sand			85	93	
Red Rock			93	101	
Sand			101	112	
Shale & Red Rock			112	156	
Sand & Shale			156	175	
Sand			175	261	
Sand & Shale			261	299	
Sand			299	310	
Sand & Shale			310	430	
Shale & Red Rock			430	473	
Sand & Shale			473	505	
Shale & Red Rock			505	546	
Shale & Sand			546	666	
White Sand			666	708	
Coal			708	718	
Sand			718	789	
Sand & Shale			789	818	
Shale & Red Rock			818	850	
Sand & Shale & Red Rock			850	885	

(Attach separate sheets to complete as necessary)

Eastern American Energy Corporation
 Well Operator
 By AMC [Signature]
 Its Vice President

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 intervals of a well."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			855	1547	
Sand			1547	1588	
Sand & Shale			1588	2085	
Limestone & Shale			2085	2088	
Big Lime			2088	2140	
Big Injun			2140	2228	
Sand & Shale			2228	2312	
Weir			2312	2398	
Shale			2398	2872	
			2872	2897	
Shale			2987	4994	
Benson			4994	5008	
Shale			5008	5290	
Elk/Alexander			5290	5374	
Shale			5374	5506	
TD			5506		

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. EA #4 Cumpston

API Well No. 47-017-2716
State County Per

WELL TYPE: Oil / Gas XX /
(If "Gas", Production / Underground storage / Deep / Shallow ✓)

LOCATION: Elevation: 1060 Watershed: Beechlick Fork
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Eastern American Energy Corporation DESIGNATED AGENT James C. Recht
Address P. O. Box N Address P. O. Box 67
Glenville, W.V. 26351 Glenville, W.V. 26351

OIL & GAS ROYALTY OWNER J. Rex Cumpston, et al
Address Beechlick Fork
Doddridge County, WV
Acreage 380A

COAL OPERATOR NONE
Address:

SURFACE OWNER J. Rex Cumpston, et al
Address Beechlick Fork
Doddridge County, WV
Acreage 380A

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name
Address
Name
Address
OIL & GAS DIVISION
DEPT. OF MINES

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Mr. Paul Garrett
Address 321 Beech Street
Clarksburg, W.V. 26301

Phone: 622-3871

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 February 20, 1980.
Undersigned well operator from J. Rex Cumpston, et al
[if said deed, lease, or other contract has been recorded:]

Recorded on February 20, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in lease book Book 113 at page 515. 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 objection 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 the receipt of this Application by the Department.

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.

BLANKET BOND

PLEASE SUBMIT COPIES OF ALL PHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
5 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

EASTERN AMERICAN ENERGY CORPORATION
Well Operator

By F.H. MCCULLOUGH, III
Vice President

[08-78]

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack, Inc.
Address Buckhannon, WV 26201
Phone: 472-2161

GEOLOGICAL TARGET FORMATION, Elk/Alexander

Estimated depth of completed well, 5500 feet Rotary / Cable tools /
Approximate water strata depths: Fresh, unknown feet; salt, feet.
Approximate coal seam depths: unknown Is coal being mined in the area? Yes / No

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 lb		X	25	---	---	Kinds
Fresh water	8-5/8	J-55	20 lb	X		1100	1100	Surface	
Coal									Sizes
Intermediate									
Production	4 1/2	CW	10.5	X		5500	5500	300 SKS.	Depths set
Tubing	1 1/2	H-40	2.5	X		---	5400		
Liners									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.

All provisions being in accordance with Chapter _____ of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-8-81.

Robert H. [Signature]
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 well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____

By _____
Its _____