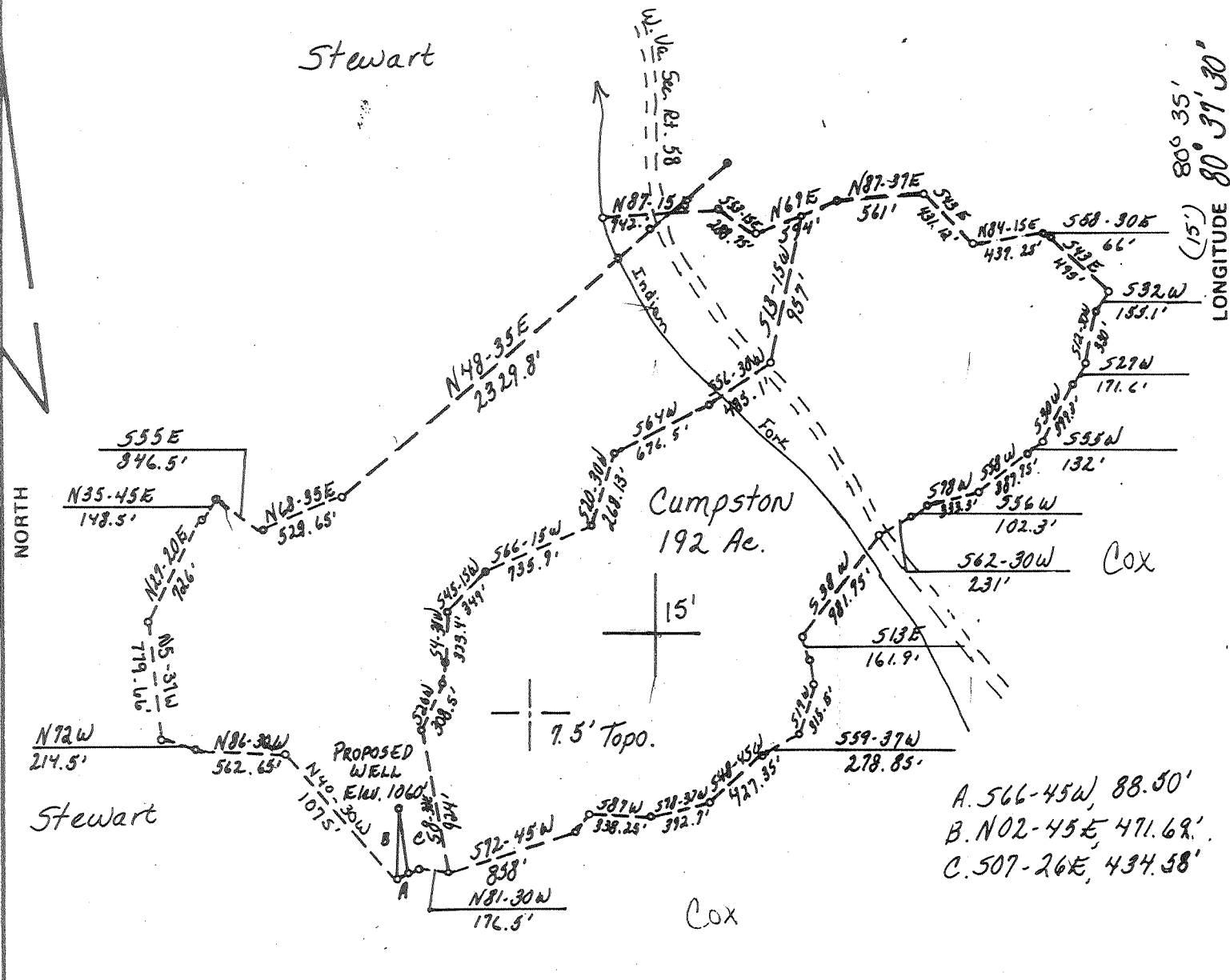


2-51

LATITUDE 39° 12' 30"
(15') 39° 15'

HW 558



- A. 566-45W, 88.50'
- B. N02-45E, 471.69'
- C. S07-26E, 434.58'

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION USGS BM JCT. Rt. 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) Harold D. Porter
 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 7, 1980
 OPERATOR'S WELL NO. #2
 API WELL NO. _____
47 - 017 - 2713 - P
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

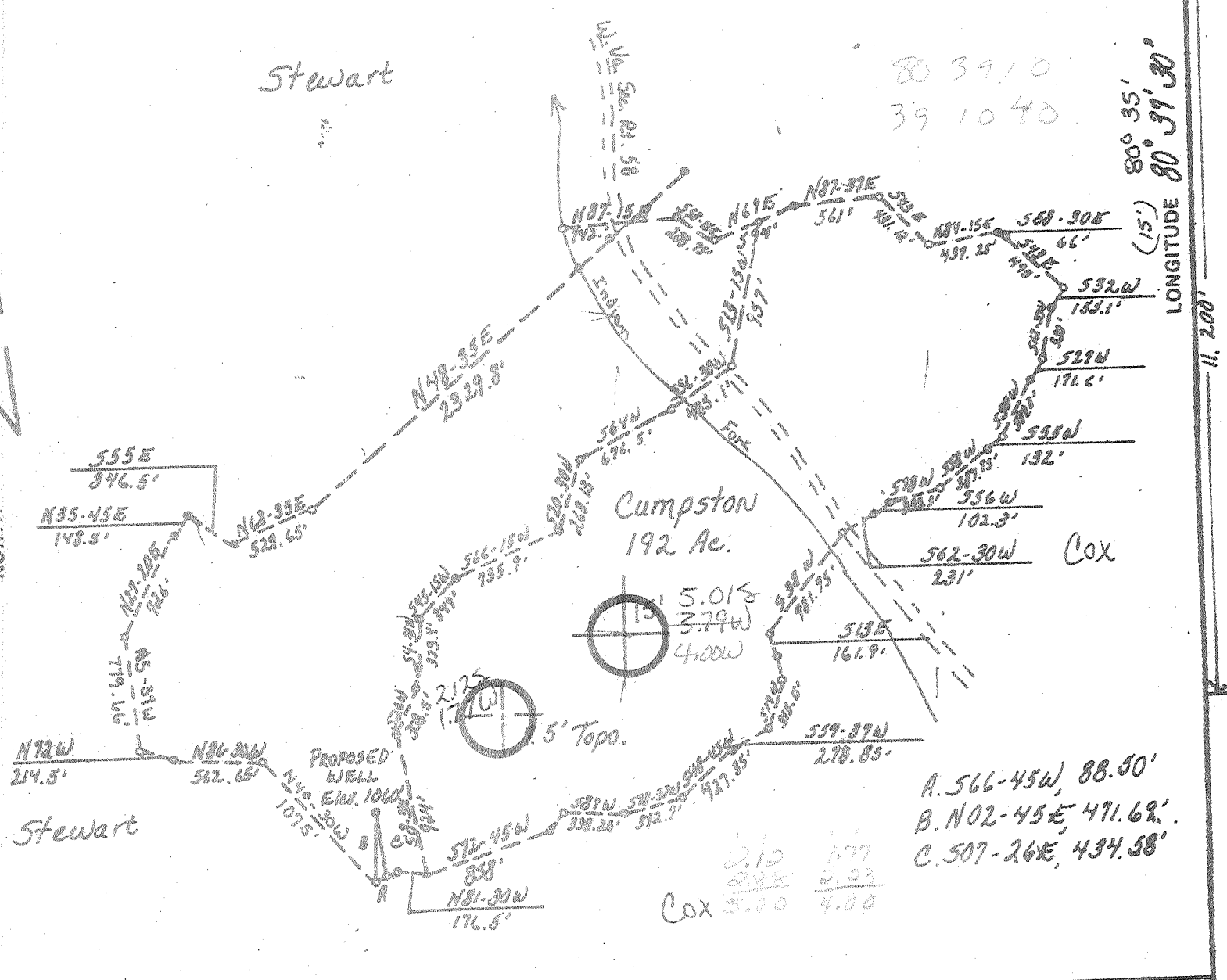
PL. CANCELLED

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 192
 OIL & GAS ROYALTY OWNER J. R. Cumpston LEASE ACREAGE 192
 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
 ADDRESS P.O. Box N ADDRESS P.O. Box N
Glenville, W. Va. 26351 Glenville, W. Va. 26351

AUG 8 1980

2-51



A. 566-45W, 88.50'
B. N02-45E, 471.69'
C. 507-26E, 434.58'

Cox 5.10 1.77
2.88 2.03
4.00

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 in 200
PROVEN SOURCE OF ELEVATION USGS 8th 1st. Et. 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) Henry D. Ponder
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 7, 19 80
OPERATOR'S WELL NO. 27
API WELL NO. _____
47 - 017 - 2713
STATE COUNTY PERMIT

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' NC
SURFACE OWNER J. R. Campston ACREAGE 192
OIL & GAS ROYALTY OWNER J. R. Campston LEASE ACREAGE 192
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
ADDRESS P.O. Box N Glenville, W. Va. 26351
P.O. Box N W. Va. 26351

JRM IV-35
(Obverse)

[08-78,

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

Operator's Well No. EA #1 Cumpston
API Well No. 47-017
State County Per

017-2713

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas", Production X / Underground storage ___ / Deep X / 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 N
Glennville, WV 26351 Glennville, WV 26351

PERMITTED WORK: Drill X / 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

GEOLOGICAL TARGET FORMATION: Elk/Alexander Depth 5500 feet

Depth of completed well, 5560 feet Rotary X / Cable Tools ___

Water strata depth: Fresh, 45 feet; salt, -- feet.

Coal seam depths: 895-905 Is coal being mined in the area? no

Work was commenced 6/19, 1980, and completed 7/15/80, 1980

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	20'	---		Kinds
Fresh water	8-5/8	J-55	20 lb	X		1133	1133	Surface	Sizes
Intermediate									
Production	4 1/2	CW	10.5	X		5651	5651	675 sks	Depths set
Logging	1 1/2	H-40	2.5	X		----	5025		
Packers									Perforations:
									Top Bottom
									5492 <u>Alex</u> 5561
									5076 <u>Ben</u> 5196

OPEN FLOW DATA

Producing formation Benson/~~Elk~~ ^{Alex.} Comingled Pay zone depth 5486-5579 & 5190 - 5201 feet
 Gas: Initial open flow, 270 Mcf/d Oil: Initial open flow, N/A Bbl/d
 Final open flow, 125 Mcf/d Final open flow, N/A Bbl/d
 Time of open flow between initial and final tests, 24 hours
 Static rock pressure, 1590 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

WELLS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.
 Perf: 10 - 0.39" holes @ 5561, 5558, 5553, 5521, 5518, 5514, 5504, 5496, 5494, 5492

4 - 0.49" holes @ 5192 - 5196

1 - 0.49" holes @ 5076 and 5083

FRAC: 1st Stage: 30,000 lbs. 80/100 sand, 50000 lbs. 20/40, 15 lb gel system, FreFlo, F-52 5% CKL. 750 gals formic acid. 347 BBLS H₂O

2nd Stage: 15000 lbs 80/100 sand 20,000 lbs 20/40, 20 lb gel system, FreFlo, F-52 1% KCl, 500 gals 15% HCl 280 BBLS H₂O

L LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fuses and salt water, coal, oil and gas
Fill			0	5	
Shale			5	15	
Sand			15	45	
Sand & Shale			45	73	
Red Rock & Shale			79	104	
Sand			104	120	
Shale & Red Rock			120	128	
Shale & Sand			128	170	
Shale & Red Rock			170	214	
Sand & Shale			214	261	
Shale & Red Rock			261	267	
White Sand			267	319	
Red Rock & Shale			319	343	
Sand & Shale			343	458	
Red Rock & Shale			458	467	
Sand & Shale			467	473	
Red Rock & Shale			473	489	
Sand & Shale			489	580	
Red Rock & Shale			580	710	
Sand			710	783	
Sand & Shale			783	838	
Sand			838	890	
Shale			893	895	
Coal			895	905	

(Attach separate sheets to complete as necessary)

Well Operator _____
 By John C. [Signature]
 Its _____

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."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indicators of oil, gas, and salt water, coal, oil and gas
Shale & Sand			905	929	
Sand			929	972	
Sand & Shale			972	1021	
Red Rock			1021	1031	
Sand & Shale			1031	1059	
Red Rock			1059	1085	
Sand & Shale			1085	1109	
Red Rock			1109	1140	
Shale			1110	1153	
Red Rock			1153	1173	
Sand			1173	1193	
Sand & Shale			1193	1205	
White Sand			1205	1235	
Sand & Shale & Redrock			1235	1260	
Sand & Shale			1260	1348	
Sand			1348	1380	
Sand & Shale			1380	1415	
Sand			1415	1477	
Sand & shale			1477	1633	
Sand			1633	1675	
Sand & Shale			1675	1707	
Sand			1707	1782	
Sand & Shale			1782	1836	
Sand			1836	1863	
Sand & Shale			1863	1958	
Sand			1958	2002	
Sand & Shale			2002	2153	
Lime			2153	2158	
Shale			2158	2186	
Pencil Cave			2186	2210	
Little Lime			2210	2266	
Big Lime			2266	2300	
Big Innun			2300	2424	
Shale			2424	2500	
Wier			2500	2582	
Shale			2582	2700	
Ganty			2700	2720	
Shale			2720	3260	
Fifth Sand			3260	3274	
Shale			3274	4706	
Riley			4706	4724	
Shale			4724	5190	
Benson			5190	5201	
Shale			5201	5486	
Shale			5486	5570	
Shale			5570	5675	
TD			5675		

AUG 17 1981

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's
Well No. E.A. Cumpston #1
API Well No. 47-017-2713
State County Perm

WELL TYPE: Oil / Gas
(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, WV 26351 Glenville, WV 26351

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

COAL OPERATOR None
Address _____

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

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____
Address _____
APR 30 1980

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

Name _____
Address OIL & GAS DIVISION
DEPT. OF MINES

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301
Phone: 622-3871

COAL LESSEE WITH DECLARATION ON RECORD:
Name _____
Address _____

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / 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 _____ Book 113 at page 515. A permit is requested to drill and

PROPOSED WORK: Drill / 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.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
1619 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

BLANKET BOND

Eastern American Energy Corporation
Well Operator
F. H. McCullough III
By _____
Vice President

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	3-5/8	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 drilling within 200 feet of the proposed well.

THIS PERMIT ~~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 included as such on the Form IV-2 filed in connection therewith.~~ MUST BE POSTED AT THE WELL SITE 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.