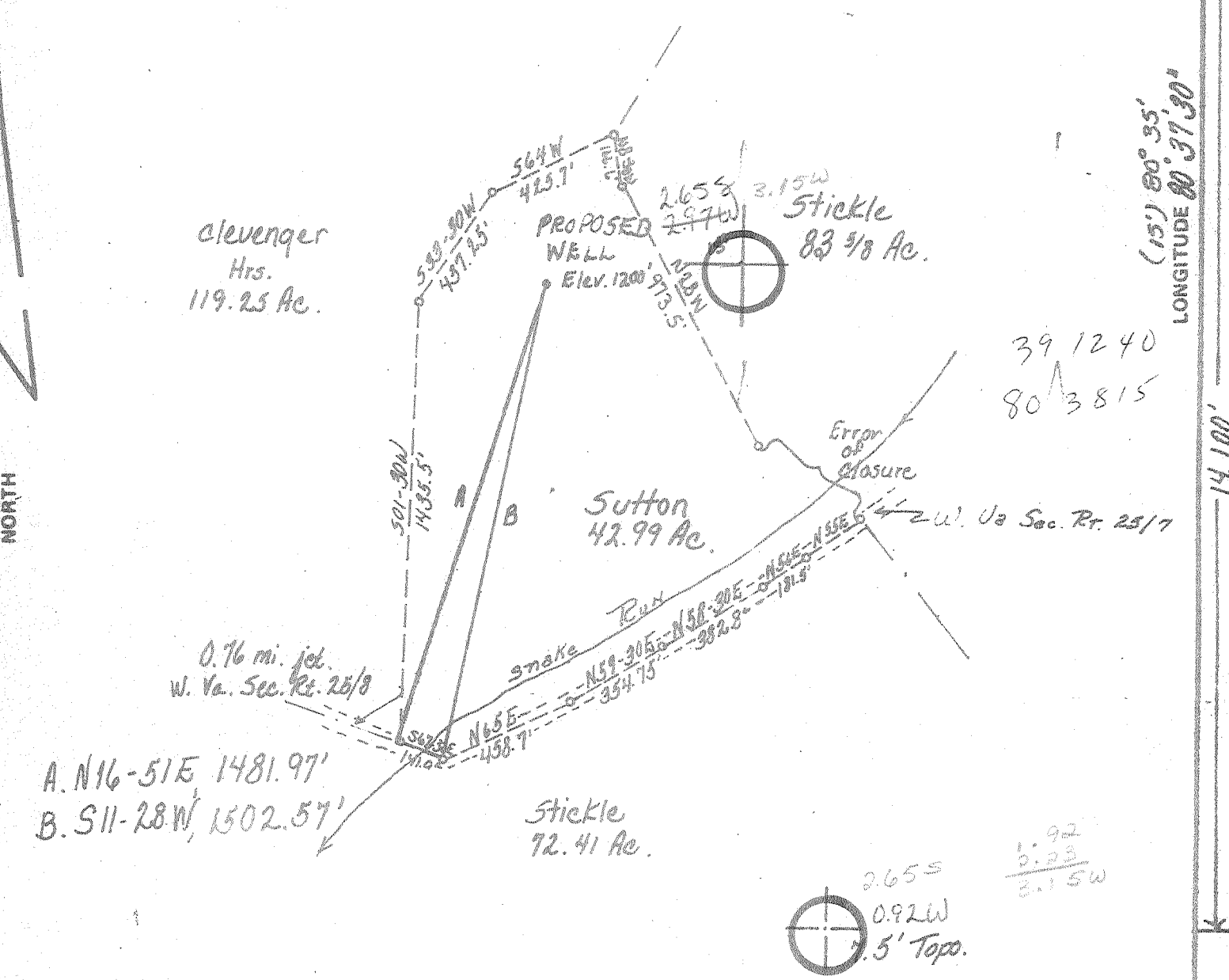


NORTH



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 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) Howard D. P. P.  
 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 22, 1980  
 OPERATOR'S WELL NO. \_\_\_\_\_  
 API WELL NO. \_\_\_\_\_  
47 - 017 - 2724  
 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 1200' WATER SHED Snake Run  
 DISTRICT New Milton COUNTY Doddridge  
 QUADRANGLE New Milton VADIS 15 NC  
 SURFACE OWNER Howard Sutton ACREAGE 42.99  
 OIL & GAS ROYALTY OWNER Howard Sutton LEASE ACREAGE 42.99  
 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. Reacht  
 ADDRESS P.O. Box N, Glenville, W. Va. 26351 ADDRESS P.O. Box N, Glenville, W. Va. 26351

(146)

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

Date August 8, 1980

FORM IV-35  
(Reverse)

Operator's  
Well No. # 3 R. Sutton

[08-78]

WELL OPERATOR'S REPORT 7  
OF

API Well No. 47 - 017 272  
State County Per

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

2724

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

LOCATION: Elevation: 1200 Watershed: Snake Run  
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 April 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, 5700 feet Rotary  / Cable Tools

Water strata depth: Fresh, 170 feet; salt, N/A feet.

Coal seam depths: 320-325 Is coal being mined in the area? No

Work was commenced 6/12/80, 1980, and completed 6/24/80, 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		X	20'			Kinds
Fresh water	8 5/8"	J-55	20	X		1232'	1232'	Surface	
Coal									Sizes
Intermediate									
Production	4 1/2"	CW	10.5	X		5624'	5624'	300 sks	Depths set
Tubing	1 1/2"	H-40	2.5	X			5100		
Liners									Perforations:
									Top Bottom
									5484-5445 Alex
									5288 - 5290 Base

OPEN FLOW DATA

Producing formation Benson/<sup>Alex</sup> Elk Comingled Pay zone depth 5 feet

Gas: Initial open flow, 0 Mcf/d Oil: Initial open flow, N/A Bbl/d

Final open flow, 133 Mcf/d Final open flow, None Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1660 psig (surface measurement) after 72 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

APR 13 1981

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

- 1st STAGE: 317 BBLS H<sub>2</sub>O, 20,000 lbs 80/100, 20,000 lbs 20/40 sand, 15 lbs/1000 gals WG-12, 15-N, 1% KCL, 500 gals 15% HCL
- 2nd STAGE: 395 BBLS H<sub>2</sub>O, 30,000 lbs 80/100, 30,000 lbs 20/40 sand, 15 lbs/1000 gals WG-12, 15-N, 1% KCL, 500 gals 15% HCL
- 3rd STAGE: 311 BBLS H<sub>2</sub>O, 20,000 lbs 80/100, 20,000 lbs 20/40 sand, 20 lbs/1000 gals WG-12, 15-N, 1% KCL, 500 gals 15% HCL.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
FILL					
Red Rock & Shale			0	5	
Sand			5	41	
Sand & Shale			41	111	
Sand			111	141	H <sub>2</sub> O @ 170'
Red Rock & Shale			141	175	
Sand & Shale			175	210	
Coal			210	320	
Sand			320	325	
Sand & Shale & Red Rock			325	375	
Sand			375	630	
Sand & Shale			630	790	
Shale & Red Rock			790	1230	
Sand & Shale			1230	1235	
Red Rock & Shale			1235	1643	
Sand & Shale			1643	1689	
Sand			1689	1882	
Sand & Shale			1882	1925	Damp @ 1924
Little Lime			1925	2161	
Sand & Shale			2161	2185	
Big Lime			2185	2200	
Big Injun			2200	2256	
Sand & Shale			2256	2347	
Weir			2347	2428	
Sand & Shale			2428	2520	
Benson			2520	5134	
Sand & Shale			5134	5142	
Elk			5142	5280	
Sand & Shale			5280	5490	
TD			5490	5611	
			5624		

(Attach separate sheets to complete as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

*F. H. McCullough, III*

By F. H. McCullough, III

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 drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. EA #3 R. Sutton

API Well No. 47 017-2724  
State County

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

LOCATION: Elevation: 1200 Watershed: Snake Run  
District: New Milton County: Doddridge Quadrangle: New Milton

WELL OPERATOR Eastern American Energy Corporation  
Address P. O. Box N  
Glenville, W.V. 26351

DESIGNATED AGENT James C. Recht  
Address P. O. Box 67  
Glenville, W.V. 26351

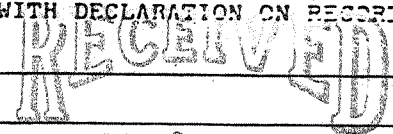
OIL & GAS ROYALTY OWNER Howard & Eileen Sutton  
Address Snake Run  
Doddridge County, WV

COAL OPERATOR NONE  
Address:

ACREAGE 42A  
SURFACE OWNER Francis Daniels  
Address Snake Run  
Doddridge County, WV

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name \_\_\_\_\_  
Address \_\_\_\_\_



APR 30 1980

Name \_\_\_\_\_  
Address OIL & GAS DIVISION  
DEPT. OF MINES

OLD 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  / other contract  / dated December 29, 19 79.  
Undersigned well operator from Clarence W. Mutschelknaus

If said deed, lease, or other contract has been recorded:  
Recorded on December 28, 19 79, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in lease Book 113 at page 11. A permit is requested to drill

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.

BLANKET BOND

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

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By F.H. McCULLOUGH, III  
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 Ruckhannon, 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 22, 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 T. [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.