

2475'

LATITUDE 39° 00' 00"

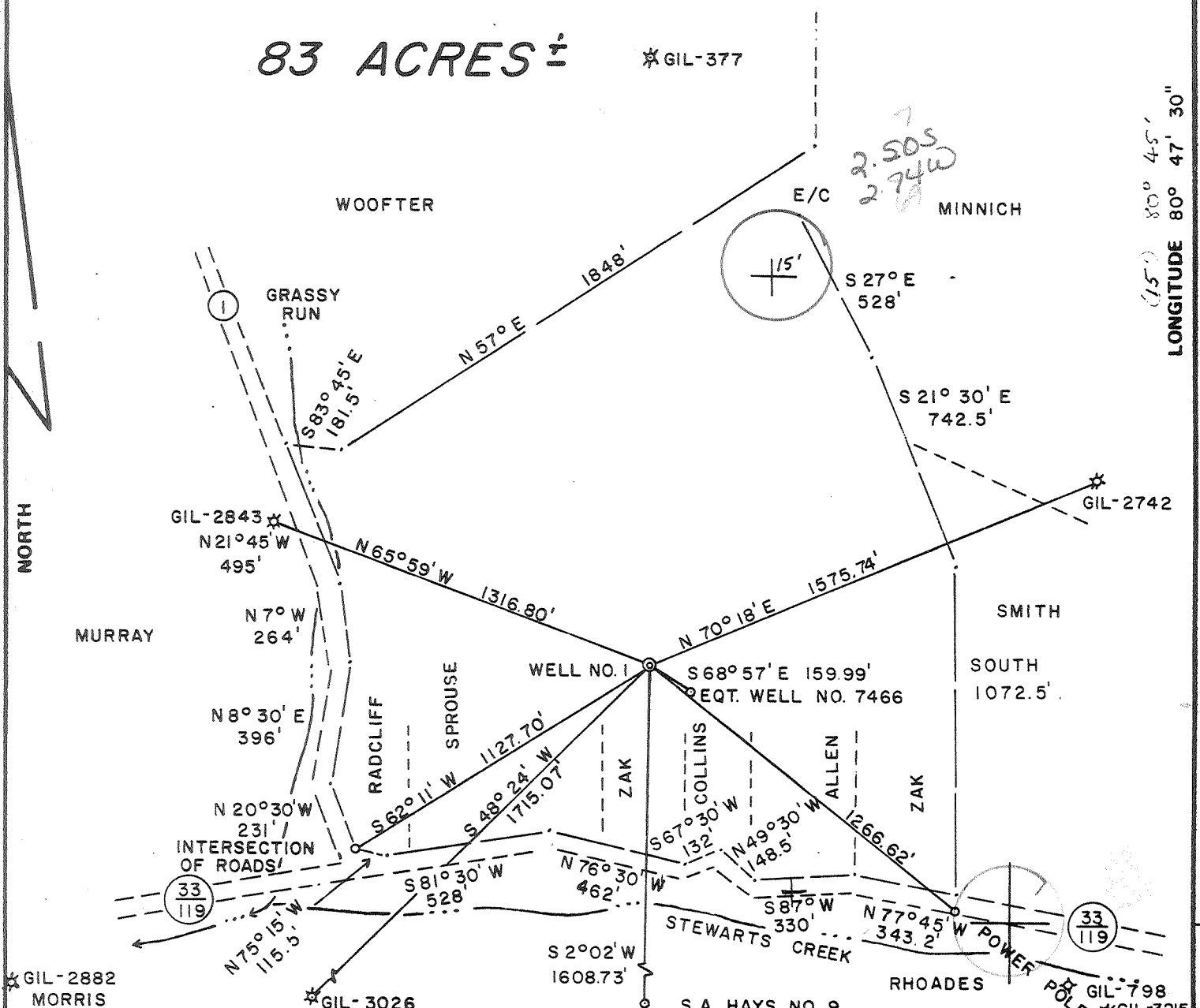
# McGINNIS WELL NO. 1

## 83 ACRES ±

\*GIL-377

LONGITUDE 80° 47' 30"

NORTH



FILE NO. 5-30  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION BM ON BRIDGE  
 ELEV. 747'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X

LOCATION: ELEVATION 993' WATER SHED STEWARTS CREEK  
 DISTRICT GLENVILLE COUNTY GILMER  
 QUADRANGLE GLENVILLE 7.5' NE

SURFACE OWNER EDWARD M. ZAK, et. ux. ACREAGE 59.86  
 OIL & GAS ROYALTY OWNER McGINNIS HEIRS, et. al. LEASE ACREAGE 83  
 LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL X 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 Helderberg ESTIMATED DEPTH 8000'

WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE  
 ADDRESS P.O. BOX N ADDRESS P.O. BOX N  
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

DATE NOVEMBER 16, 19 81

OPERATOR'S WELL NO. 1

API WELL NO. 47-021-3853

STATE WEST VIRGINIA COUNTY GILMER PERMIT REVISED ESTIMATED DEPTH.

STATE OF WEST VIRGINIA DEPARTMENT OF MINES OIL AND GAS DIVISION

deep well

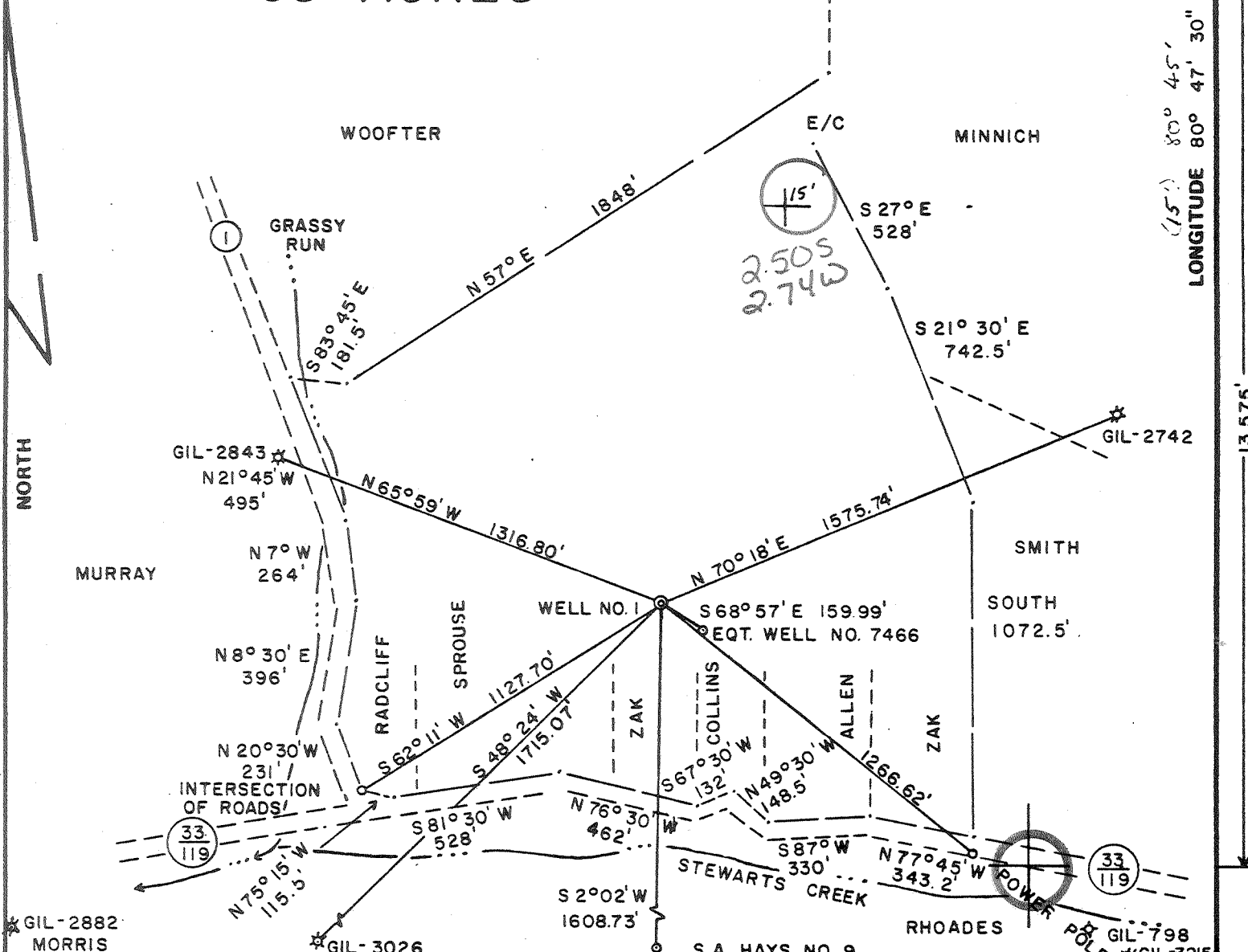
JUL 19 1982



# MCGINNIS WELL NO. 1

## 83 ACRES ±

\* GIL-377



FILE NO. 5-30  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION BM ON BRIDGE  
 ELEV. 747'

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) Gregory A. Smith  
 R.P.E. \_\_\_\_\_ L.L.S. 677

PLACE SEAL HERE

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



DATE NOVEMBER 16, 19 81  
 OPERATOR'S WELL NO. 1  
 API WELL NO. \_\_\_\_\_  
47-021-3853  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 993' WATER SHED STEWARTS CREEK  
 DISTRICT GLENVILLE COUNTY GILMER  
 QUADRANGLE GLENVILLE 7.5' N 15' NE  
 SURFACE OWNER EDWARD M. ZAK, et. ux. ACREAGE 59.86  
 OIL & GAS ROYALTY OWNER MCGINNIS HEIRS, et. al. LEASE ACREAGE 83  
 LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL X 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 DEVONIAN SHALE ESTIMATED DEPTH 5200'  
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE  
 ADDRESS P.O. BOX N ADDRESS P.O. BOX N  
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

DEC 16 1981



V-35  
(rev 8-81)

Date December 15, 1982  
Operator's  
Well No. McGinnis #1  
Farm McGinnis Heirs  
API No. 47 - 021 - 3853

State of West Virginia  
Department of Mines  
Oil and Gas Division

RECEIVED

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE SEP 2 - 1983

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  /  
(If "Gas," Production  / Underground Storage  / Deep  / Shallow  OIL & GAS DIVISION  
DEPT. OF MINE

LOCATION: Elevation: 993' Watershed Stewarts 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 Patricia Ward

ADDRESS Glenville, WV 26351

MINERAL RIGHTS OWNER Rupert R. McGinnis, et ux

ADDRESS unknown

OIL AND GAS INSPECTOR FOR THIS WORK

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

PERMIT ISSUED November 23, 1981 / July 15, 1982

DRILLING COMMENCED July 20, 1982

DRILLING COMPLETED July 31, 1982

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"			
9 5/8			
8 5/8	1120'	1120'	Surface
7			
5 1/2			
4 1/2	7124'	7124'	512 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Silurian Limestone Depth 7155 feet

Depth of completed well 7155 feet Rotary  / Cable Tools

Water strata depth: Fresh -0- feet; Salt -0- feet

Coal seam depths: 350-353; 461-464; 539-542 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Elk, Benson comingled Pay zone depth 4464 - 4906 feet

Gas: Initial open flow -0- Mcf/d Oil: Initial open flow NA Bbl/d

Final open flow 183 Mcf/d Final open flow NA Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1100 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 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

SEP 19 1983

(Continue on reverse side)

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

- First - Perforated 41 0.39" holes from 6803' to 6824' *Helderberg*  
Treat with 2000 gal. 15% HCl, Clasta, HC<sub>2</sub>, 15N, Fercheck & N<sub>2</sub>
- Second - Perforate 11 - 0.49" holes from 4789' to 4906' *Elk*  
Frac with 20,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand, N<sub>2</sub>, and frac chemicals
- Third - Perforate 8 - 0.49" holes from 4464' to 4468' *Benson*  
Frac with 30,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand and frac chemicals

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	5	
Sand & shale			5	140	
Shale & Red Rock			140	350	
Coal			350	353	
Sand & shale			353	539	
Coal			539	542	
Sand & shale			542	1580	
Big Lime			1580	1610	
Big Injun			1610	1760	
Weir			1760	1980	
Sand & Shale			1980	4454	
Benson			4454	4478	
Sand & shale			4478	4734	
Elk			4734	4910	
Sand & shale			4910	6370	
Onondaga			6370	6598	
Oriskany			6598	6686	
Helderberg			6686	7055	
<u>Tonoloway</u>			7055	7155	
Total Depth			7155		

7155  
6686  
-----  
4469 - expl. ftg.

(Attach separate sheets as necessary)

Eastern American Energy Corporation

Well Operator  
*F. H. McCullough, III*

By: F. H. McCullough, III vice President

Date: December 15, 1932

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."



Well No. McGinnis #1  
Farm McGinnis Heirs  
API # 47 -021 - 3853  
Date November 17, 1981

(Revised 3-81)

RECEIVED

NOV 23 1981

OIL AND GAS DIVISION  
WEST VIRGINIA DEPARTMENT OF MINES

STATE OF WEST VIRGINIA

OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil  / Gas  /

(If "Gas", Production  / Underground storage  / Deep  / Shallow  /

LOCATION: Elevation: 993' Watershed: Stewarts Creek  
District: Glenville County: Gilmer Quadrangle: Glenville 7 1/2

WELL OPERATOR Eastern American Energy Corp.  
Address P. O. Box N  
Glenville, WV 26351

DESIGNATED AGENT Donald C. Supcoe  
Address P. O. Box N  
Glenville, WV 26351

OIL AND GAS ROYALTY OWNER McGinnis Heirs, et al  
Address \_\_\_\_\_

COAL OPERATOR NONE  
Address \_\_\_\_\_

Acreage 83

COAL OWNER(S) WITH DECLARATION ON RECORD:  
NAME NONE  
Address \_\_\_\_\_

SURFACE OWNER Edward M. Zak, et ux  
Address \_\_\_\_\_

NAME \_\_\_\_\_  
Address \_\_\_\_\_

Acreage 59.86

FIELD SALE (IF MADE) TO:  
NAME \_\_\_\_\_  
Address \_\_\_\_\_

COAL LESSEE WITH DECLARATION ON RECORD:  
NAME NONE  
Address \_\_\_\_\_

OIL AND GAS INSPECTOR TO BE NOTIFIED:  
NAME Deo Mace  
Address Rt. 1, Box 65  
Sand Ridge, WV  
Telephone 655-7398

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed  / lease  / other contract  / dated July 20, 1922, to the undersigned well operator from Hester A. McGinnis, Widow.

(If said deed, lease, or other contract has been recorded:)

Recorded on January 16, 1983, in the office of the Clerk of County Commission of Gilmer County, West Virginia, in 100 Book at page 372. A permit is requested as follows:

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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this 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  
1613 WASHINGTON ST., E.  
CHARLESTON, WV 25311  
Telephone - 304/348-3092

BLANKET BOND

Eastern American Energy Corporation  
Well Operator

BY: Richard Heffelfinger  
Richard Heffelfinger  
Its: Operations Manager

(Revised 3-81)

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, West Virginia 26201  
(304) 472-2161

GEOLOGICAL TARGET FORMATION Benson

Estimated depth of completed well 4850 feet. Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 250 feet; salt,      feet.  
Approximate coal seam depths: Unknown  
Is coal being mined in this area: Yes      / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft.	New	Used	For Drill- ling	Left in Well		
Conductor	20	J-55	94 lb.		X	25	-0-	-0-	Kinds
Fresh water	8 5/8	J-55	20 lb.	X		450	450	Surface	
Coal									Sizes
Intermed.									
Production	4 1/2	CW	10.5	X		4850	4850	525 sks.	Depths set
Tubing	1 1/2	H-40	2.5	X		----	4400		
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.*

**THIS PERMIT MUST BE POSTED AT THE WELL SITE**

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 7-30-82

*[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 regularions.

Date:     , 19    .

E:       
Its: