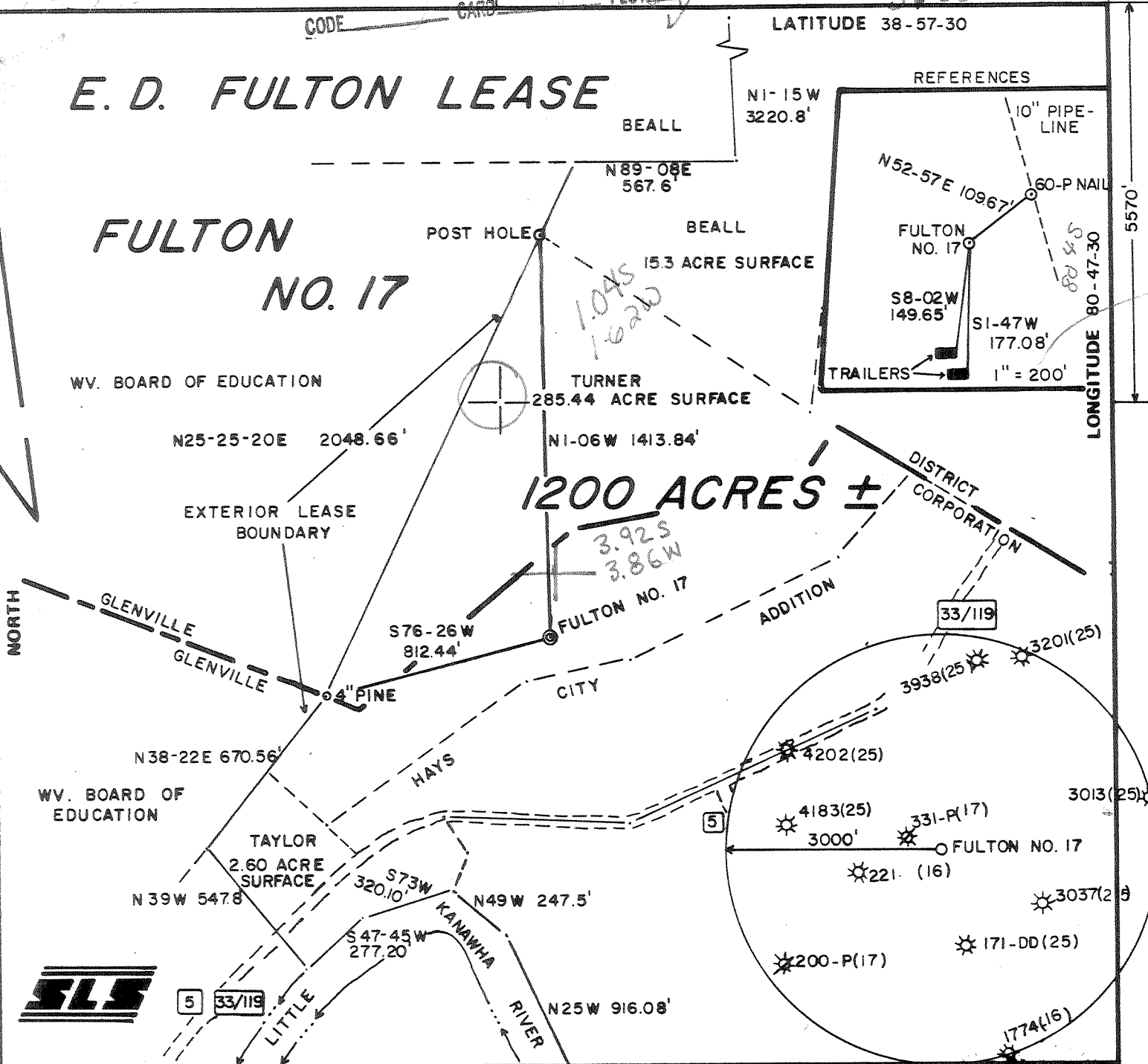


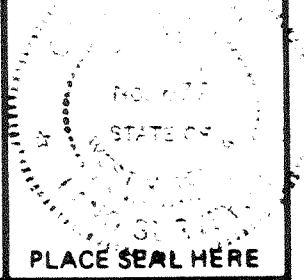
E. D. FULTON LEASE

FULTON NO. 17



FILE NO. 15-22, 16-32
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB
 ELEV. = 1198'

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



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



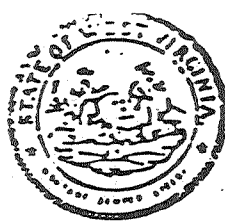
DATE OCTOBER 11, 19 84
 OPERATOR'S WELL NO. FULTON NO. 17
 API WELL NO. 47-021-4270
 STATE WEST VIRGINIA COUNTY GILMER PERMIT 4270

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 868' WATER SHED LITTLE KANAWHA RIVER
 DISTRICT GLENNVILLE CORPORATION COUNTY GILMER
 QUADRANGLE GLENNVILLE 7.5-372 15' NE 3 Glennville
 SURFACE OWNER D. H. TURNER ACREAGE 285.44
 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 ORISKANY ESTIMATED DEPTH 6400'
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE
 ADDRESS P.O. BOX "N" 254 ADDRESS P.O. BOX "N" 254
GLENNVILLE, WV 26351 GLENNVILLE, WV 26351

NOV 13 1984

DEEP WELL 66 Glennville North (182)



Date December 17, 1984

Operator's FULTON #17

State of West Virginia Well No. FULTON #17

Department of Mines Old Farm - E.D. Fulton

Oil and Gas Division API No. 47 - 021 - 4270

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

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

LOCATION: Elevation: 868 Watershed Little Kanawha River

District: Glennville County Gilmer Quadrangle Glennville 7.5'

ANY Eastern American Energy Corporation

ESS P.O. Box N, Glennville, WV 26351

GNATED AGENT Donald C. Supcoe

ESS P.O. Box N, Glennville, WV 26351

FACE OWNER D. H. Turner, et al

ESS 205 S. Lewis St., Glennville, WV 26351

ARAL RIGHTS OWNER John R. Morris, et ux

ESS P. O. Box 629, Parkersburg, WV

AND GAS INSPECTOR FOR THIS WORK Deo Mace

1, Box 65 ADDRESS Sandridge, WV 25274

IT ISSUED 11/2/84

LLING COMMENCED 11/6/84

LLING COMPLETED 11/13/84

PPPLICABLE: PLUGGING OF DRY HOLE ON

INUOUS PROGRESSION FROM DRILLING OR

ORKING. VERBAL PERMISSION OBTAINED

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	609	609	Surface
7			
5 1/2			
4 1/2	6691	6691	742 ³ /Ft.
3			
X 1 1/2	—	4338	—
Liners used			

OGICAL TARGET FORMATION Oriskany Depth 6400 feet

Depth of completed well 6745 feet Rotary X / Cable Tools

Water strata depth: Fresh 45 feet; Salt None feet

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

FLOW DATA

Producing formation Elk, Benson, Co-mingled Pay zone depth 4368 - 4821 feet

Gas: Initial open flow 15,000 Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 615,000 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1450 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 JAN 14 1985

Static rock pressure psig (surface measurement) after hours shut in:

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

Perforate 12 - 0.41" holes from 4670.5' - 4821'. *OK*

Frac with 30,000 lbs. of 20/40 sand.

Perforate 8 - 0.41" holes from 4368' - 4372'. *Benson*

Frac with 50,000 lbs. of 20/40 sand.

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	10	
Sand, Redrock & Shale			10	1300	Top of E Log @ 1300'
Shale			1300	1520	
Big Lime			1520	1620	
Big Injun			1620	1690	
Shale			1690	1763	
Weir			1763	1898	
Shale			1898	4362	
Benson			4362	4388	
Shale			4388	4621	
Elk			4621	5385	
Shale			5385	6216	
Marcellus			6216	6282	
Onondaga			6282	6511	
Oriskany			6511	6745	
T.D.			6745		

282
6
868
5314

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION
Well Operator
By: *[Signature]* Vice President
Date: *12-17-84*

Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic

RECEIVED

NOV - 2 1984



1) Date: October 17, 19 84
 2) Operator's Well No. FULTON #17
 3) API Well No. 47 - 021 - 4270
 State County Permit

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

**OIL & GAS DIV.
 DEPT. OF MINES**

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep X / Shallow)
- 5) LOCATION: Elevation: 868' Watershed: Little Kanawha River
 District: Glenville 7.5' County: Gilmer Quadrangle: Glenville 7.5'
- 6) WELL OPERATOR Eastern American Energy Corp. 7) DESIGNATED AGENT Donald C. Supcoe
 Address P.O. Box N, Glenville, WV 26351 Address P.O. Box N, Glenville, WV 26351
(304) 462-5781 14980 (304) 462-5781
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Deo Mace 655-8693 Name Unknown
 Address Rt. 1, Box 65 Address
Sand Ridge, WV 25274
- 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, Oriskany
- 12) Estimated depth of completed well, 6400' feet
- 13) Approximate strata depths: Fresh, 295 feet; salt, None feet.
- 14) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes / No X

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	10 3/4	F-25	32.7		X	25	-0-		Kind:
Fresh water	8 5/8	CW	20	X		600	600	CTS 50/50 Poz	DCI Order # 1
Coa:									Size: Cause #.35
Intermediate									
Production	4 1/2	J-55	10.5	X		6400	6400	375 Ft. ³	Depth set: or as required
Tubing	1 1/2	H-40	2.7	X			6250		by Rule 15.01
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4270 Date November 2, 19 84

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 2, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>57</u>	<u>J.H.</u>	<u>MW</u>	<u>MW</u>	<u>352</u>

[Signature]

Administrator, Office of Oil and Gas

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

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File