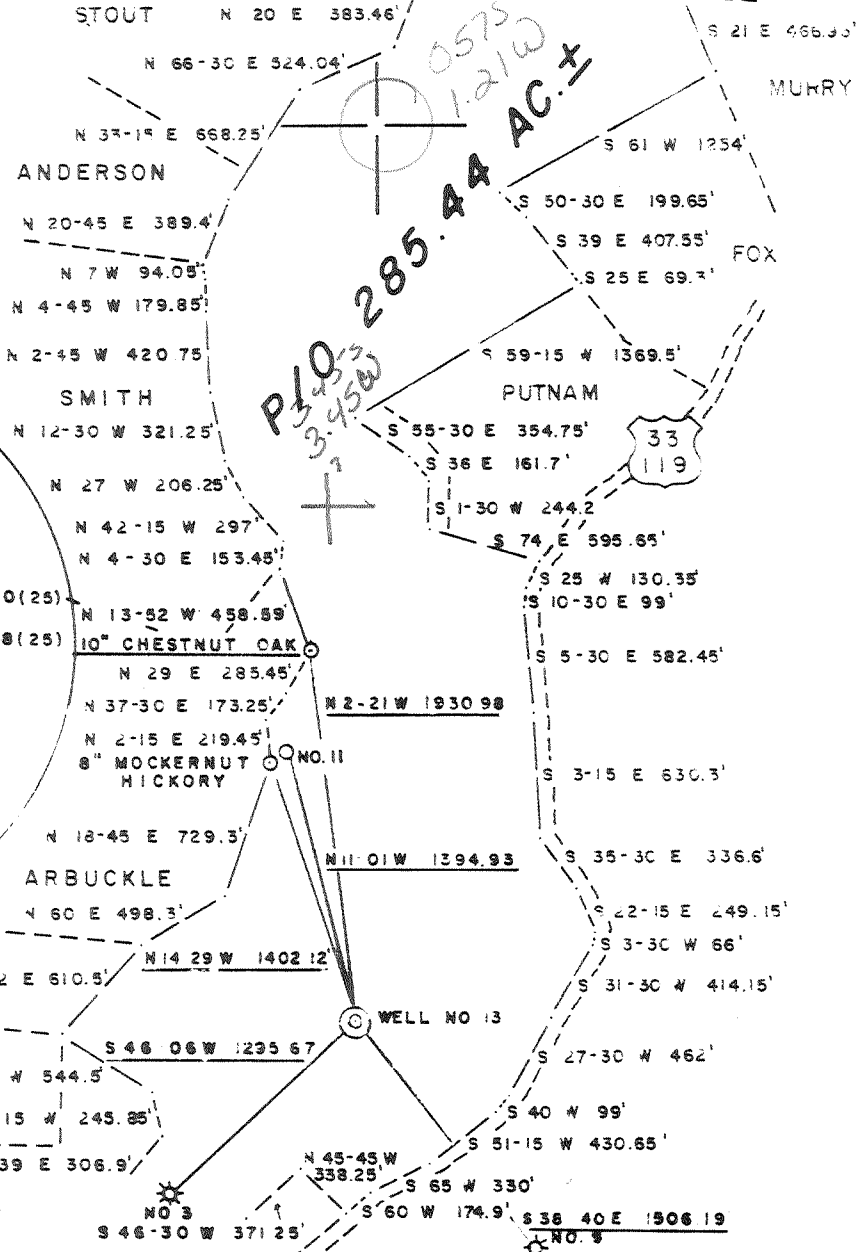
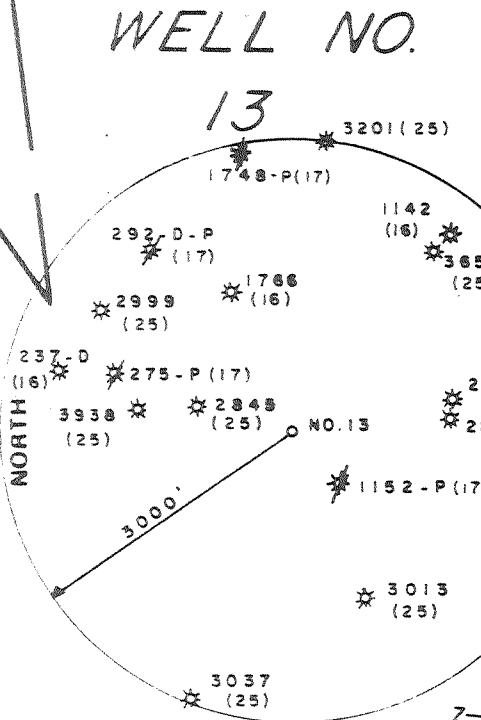


E. D. FULTON LEASE

Plot U Card CSD

6375 39° 00' -15"
LATITUDE 38° 57' 30"

LONGITUDE 80° 47' 30"



NOTE: TRACT SHOWN IS PART OF A 285.44 ACRE TRACT WHICH IS PART OF A 1200 ACRE LEASE.

FILE NO. 12 - 78
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1 / 200
PROVEN SOURCE OF ELEVATION TOP OF KNOB
ELEV 1303'

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 APRIL 4, 1984
OPERATOR'S WELL NO. 13
API WELL NO. 47 - 021 - 4178
STATE WEST VIRGINIA COUNTY GILMER 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 965' WATER SHED STEWART CREEK
DISTRICT GLENVILLE 3 COUNTY GILMER
QUADRANGLE GLENVILLE 7.5' 15' NE
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) _____

MAY 14 1984

PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION BENSON-ELK 259 ESTIMATED DEPTH 5400'
WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT DONALD SUPCOE
ADDRESS P.O. BOX "N" GLENVILLE, WV. 26351 ADDRESS P.O. BOX "N" GLENVILLE, WV. 26351

DEEP WELL - G-G Glenville North (182)



IV-35
(Rev 8-81)

Date June 25, 1984
Operator's
Well No. FULTON #11
Farm D. H. Turner
API No. 47 - 021 - 417

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OCT 29 1984

State of West Virginia
Department of Mines
Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 965' Watershed Stewart Creek
District: Glenville County Gilmer Quadrangle Glenville 7.5'

COMPANY Eastern American Energy Corporation

ADDRESS P.O. Box 67, Glenville, WV 26351

DESIGNATED AGENT Donald C. Supcoe

ADDRESS P.O. Box 67, Glenville, WV 26351

SURFACE OWNER D. H. Turner, et al

ADDRESS 205 S. Lewis St., Glenville, WV 26351

MINERAL RIGHTS OWNER John R. Morris, et al

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

Rt. 1, Box 5 ADDRESS Sand Ridge, WV 25274

PERMIT ISSUED May 7, 1984

DRILLING COMMENCED May 30, 1984

DRILLING COMPLETED June 4, 1984

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	Content fill up Cu. ft.
Size 20-16 Cond.	20	-0-	N/A
13-10"			
9 5/8			
8 5/8	761	761	Surface
7			
5 1/2			
4 1/2	6724	6724	855 ³ /Ft.
3			
2	---	---	
Liners used			

GEOLOGICAL TARGET FORMATION Benson/Elk/Oriskany Depth 6800 feet

Depth of completed well 6780 feet Rotary X / Cable Tools _____

Water strata depth: Fresh 95 feet; Salt None feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 6574-6624 feet

Gas: Initial open flow 157,000 Mcf/d Oil: Initial open flow N/A Bbl/d

After treatment Final open flow * 488,000 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1650 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

NOV 19 1984

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

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

Perforated - 15 - 0.39" holes from 6574' to 6624'.

Frac - 20,000 lbs. 80/100 and 40,000 lbs. 20/40. 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
Redrock, Sand & Shale			0	870	Top of E Log @ 870'
Shale			870	1192	
Sand			1192	1272	
Sand & Shale			1272	1604	
Big Lime			1604	1650	
Big Injun			1650	1764	
Shale			1764	1840	
Weir			1840	1930	
Sand & Shale			1930	3130	
Speechley			3130	3146	
Sand & Shale			3146	3670	
Balltown			3670	3696	
Sand & Shale			3696	4476	
Benson			4476	4504	
Sand & Shale			4504	4782	
Alexander			4732	4934	
Sand & Shale			4934	5078	
Elk			5078	5450	
Sand & Shale			5450	6280	
Marcellus			6280	6340	
Onondaga			6340	6560	
Oriskany			6560	6650	
Shale			6650	6780	
		T.D.	6780		6340 965 5375

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: *[Signature]* Vice President

Date: 6/26/84

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 ... in the drilling of a well."



1) Date: April 11, 19 84
 2) Operator's Well No. FULTON #13
 3) API Well No. 47 - 021 - 4178
 State _____ County _____ Permit _____

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

- 4) WELL TYPE: A Oil _____ / Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep X / Shallow X)
 5) LOCATION: Elevation: 965' / Watershed: Stewart Creek
 District: Glenville / 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 / (304) 462-5781
 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:
 Name Deo Mace 655-7398 / Name L. L. Morris
 Address Rt. 1, Box 5 / Address _____
Sandridge, WV 25274 / Glenville, WV 26351
 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, BENSON/ELK
 12) Estimated depth of completed well, 5400 feet
 13) Approximate strata depths: Fresh, 190 feet; salt, None feet.
 14) Approximate coal seam depths: None Is coal being mined in the area? Yes OIL & GAS DIVISION

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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	11 5/8	J 55	65		X	20	-0-		Kinds
Fresh water	8 5/8	CW	24	X		900	900	CTS. 50/50	Poz
Coal								<i>waiting for 10 hrs</i>	
Intermediate						<i>5400</i>	<i>5400</i>		
Production	4 1/2	J 55	10.5	X		6200	6200	800 FT.³	Depths set
Tubing								<i>as req by rule 15-01</i>	
Liners									Perforations:
									Top Bottom

DEPT. OF MINES

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-021-4178 Date May 7, 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 May 7, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

BOND	Agent: <u>lp</u>	Plat: <u>MU</u>	Casing: <u>MU</u>	Fee: <u>1171</u>
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[Signature]
 Administrator, Office of Oil and Gas

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