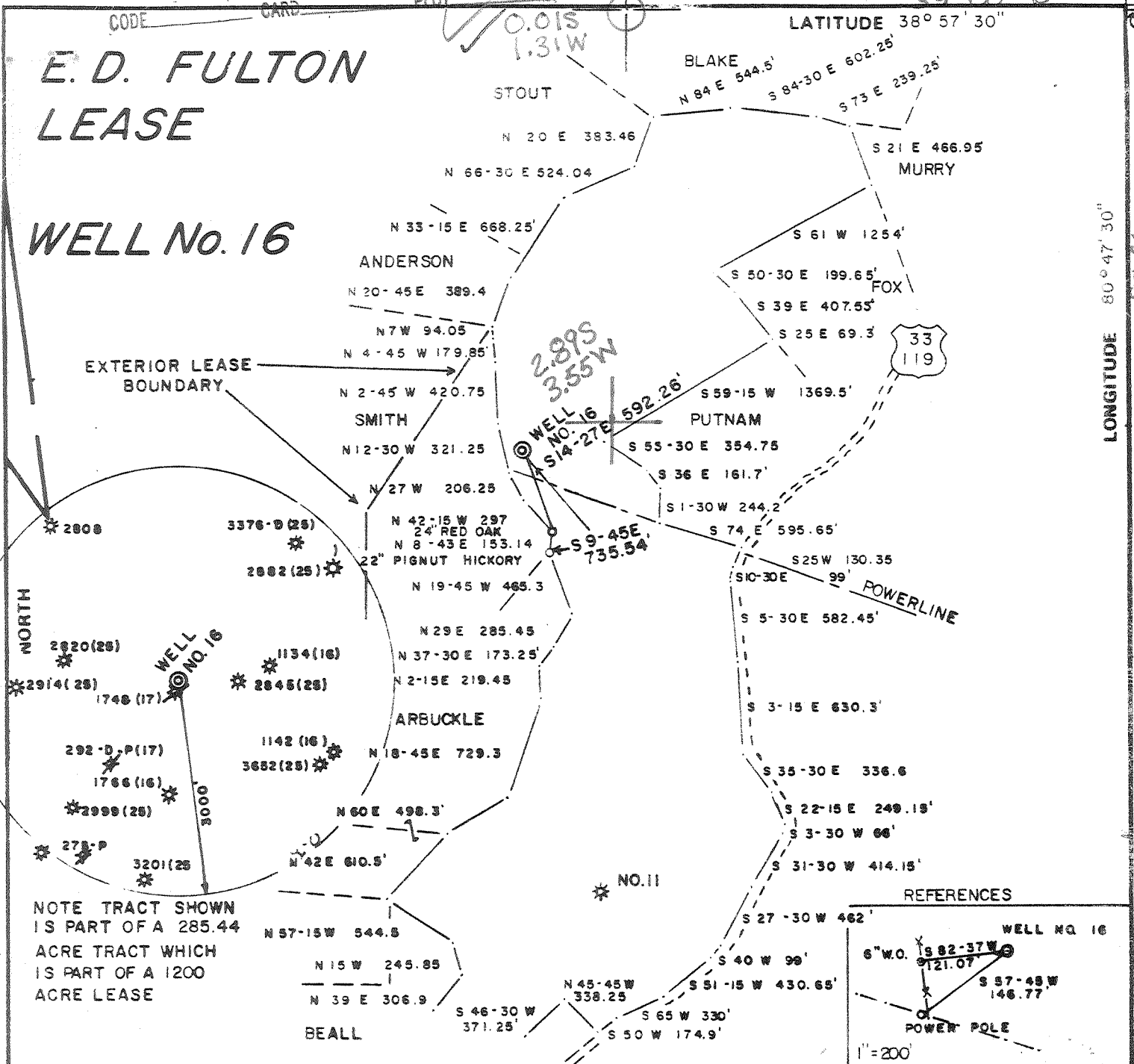


E. D. FULTON LEASE

WELL No. 16



FILE NO. 14-70
 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 AUGUST 29, 19 84
 OPERATOR'S WELL NO. WVGIL001216
 API WELL NO. _____
47 - 021 - 4239
 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 X SHALLOW ___
 LOCATION: ELEVATION 1068' WATER SHED STEWART CREEK
 DISTRICT GLENVILLE COUNTY GILMER
 QUADRANGLE GLENVILLE 07.5' 15' NE3
 SURFACE OWNER D.H. TURNER ACREAGE 285.44
 OIL & GAS ROYALTY OWNER E. D. FULTON LEASE ACREAGE 1200
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 ADDRESS P.O. BOX N
GLENVILLE WV 26351 GLENVILLE WV 26351

DEEP WELL 6-6 Glenville North (182)



Date December 6, 1984

RECEIVED
DEC 19 1984

State of West Virginia

Department of Mines
Oil and Gas Division

Operator's

Well No. FULTON #16

Farm E.D. Fulton

API No. 47 - 021 - 4239

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: 1068' 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 D.H. Turner, et al

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

MINERAL RIGHTS OWNER John Morris, et al

ADDRESS P. O. Box 29, Parkersburg, WV 26101

OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace

ADDRESS Rt. 1, Box 65 Sand Ridge, WV 25274

PERMIT ISSUED 9/5/84

DRILLING COMMENCED 9/10/84

DRILLING COMPLETED 9/19/84

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	399	399	Surface
7			
5 1/2			
4 1/2	6912	6912	743/Ft. ³
3			
1 1/2	---	4498	---
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 6600 feet

Depth of completed well 6930 feet Rotary X / Cable Tools

Water strata depth: Fresh 110 feet; Salt --- feet

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

OPEN FLOW DATA

Producing formation Elk, Benson Co-mingled Pay zone depth 4528 - 5057 feet

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

Final open flow 421,000 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1000 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

DEC 31 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.

Perforate 14 - 0.41" holes from 4778.5' to 5057' *Alux.*

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

Perforate 8 - 0.41" holes from 4528' to 4532' *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
Sand & Shale			0	15	Top of E Log at 1600'
Sand, Shale & Redrock			15	1600	
Shale			1600	1700	
Big Lime			1700	1778	
Big Injun			1778	1862	
Shale			1862	1940	
Weir			1940	2074	
Shale			2074	4514	
Benson			4514	4542	
Shale			4542	4770	
Alexander			4770	5064	
Shale			5064	5494	
Elk			5494	5908	
Shale			5908	6390	
Marcellus			6390	6464	
Onondaga			6464	6694	
Oriskany			6694	6792	
Shale			6792	6930	
T.D.			6930		

(Attach separate sheets as necessary)

EASTERN AMERICAN ENERGY CORPORATION

Well Operator

By: *[Signature]* Vice President
Date: 12-7-84

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



1) Date: September 4, 19 84
2) Operator's Well No. FULTON #16
3) API Well No. 47 - 021 - 4239
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)
- 5) LOCATION: Elevation: 1068' Watershed: Stewarts Creek District: Glenville County: Gilmer Quadrange: Glenville 7.5'
- 6) WELL OPERATOR Eastern American Energy Corp. Address P.O. Box N, Glenville, WV 26351 (304) 462-5781
- 7) DESIGNATED AGENT Donald C. Supcoe Address P.O. Box N, Glenville, WV 26351 (304) 462-5781
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Deo Mace 655-8693 Address Rt. 1, Box 65 Sand Ridge, WV 25274
- 9) DRILLING CONTRACTOR: Name Unknown Address
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 6600 feet
- 13) Approximate trata 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

RECEIVED
SEP 5 - 1984
OIL & GAS DIVISION
DEPT. OF MINES

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-		Kinds
Fresh water	8 5/8	CW	20	X		600	600	CTS 50/50	Poz
Coal									Sizes <u>WOC 10 HRS</u>
Intermediate									
Production	4 1/2	J-55	10.5	X		6400	6400	375 Ft. ³	Depths set
Tubing	1 1/2	H-40	2.7	X		---	6250		<u>or as required by rule 15.01</u>
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-021-4239 Date September 5, 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 September 5, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u> <u>57</u>	Agent: <u>LD</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>148</u>
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Margaret J. Wasson
Administrator, Office of Oil and Gas

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