

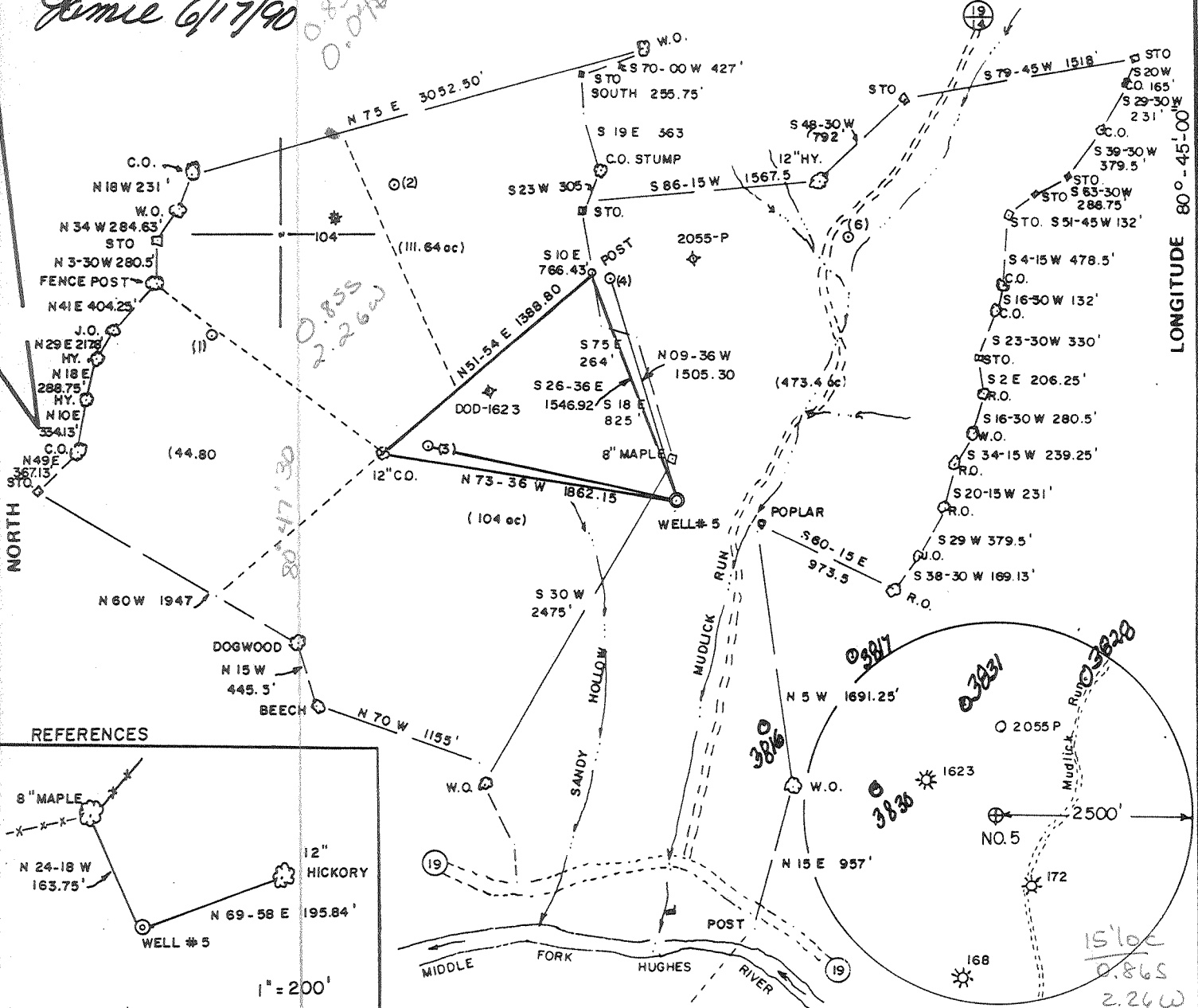
# MERT / J. WILLIAMS No. 5

*Janie 6/17/90*  
*0.85*  
*0.0710*

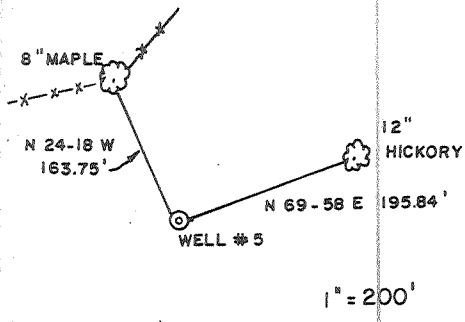
LATITUDE 39°-10'-00"

4475'

LONGITUDE 80°-45'-00"



**REFERENCES**



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB  
 ELEV. 1313'

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) Robert A. Carr  
 R.P.E. \_\_\_\_\_ L.L.S. 800

PLACE SEAL HERE

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



DATE MARCH 14th 19 90  
 OPERATOR'S WELL NO. 5 (Five)  
 API WELL NO. WVD00001605  
47 - 017 - 3832  
 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 1092' WATERSHED MUDLICK OF MIDDLE FORK HUGHES RIVER  
 DISTRICT SOUTHWEST 7 COUNTY DODDRIDGE  
 QUADRANGLE OXFORD 7.5 Holbrook EC  
 SURFACE OWNER ROSALIE HUFF ACREAGE 473.4 of 733.84  
 OIL & GAS ROYALTY OWNER JESSIE WILLIAMS et al LEASE ACREAGE 2000.00  
 LEASE NO. WVO1974-4  
 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 ALEXANDER ESTIMATED DEPTH 5270'  
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT JOHN M. PALETTI  
 ADDRESS BOX N ADDRESS 501, 56th STREET  
GLENVILLE, WV 26351 259 CHARLESTON, WV 25304

JUN 29 1990

6-6 Straight Fork-Bluestone Creek (133)

OCT 19 90

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

Permitting  
Oil and Gas Section

Well Operator's Report of Well Work

Farm name: HUFF, ROSALIE Operator Well No.: MERT/WILLIAMS 5, J.

LOCATION: Elevation: 1092.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 4475 Feet South of 39 Deg. 10Min. 0 Sec.  
Longitude 11900 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: EASTERN AMERICAN ENERGY C  
P. O. BOX N  
GLENNVILLE, WV 26351-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 06/26/90  
Well work Commenced: 09/04/90  
Well work Completed: 09/20/90  
Verbal Plugging  
Permission granted on:  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5283'  
Fresh water depths (ft) None

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1254'	1254'	C.T.S.
4-1/2"	5185.95'	5185.95'	839
1-1/2"	---	4998'	---

OPEN FLOW DATA

Riley (Commingled)

Producing formation Alexander, Benson/3rd Riley, Pay zone depth (ft) 5077'-3893.5'  
Gas: Initial open flow 253 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 179 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 15 Hours  
Static rock Pressure 680 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
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 pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Rich Heffelfinger  
EASTERN AMERICAN ENERGY CORP.  
Rich Heffelfinger  
By: Vice President - Regional Operations  
Date: October 3, 1990

OCT 30 1990

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

3-STAGE FOAM FRAC

- Stage 1: Alexander - 13 holes (5077'-5030') Breakdown 3860 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 45,000 lbs 20/40 sand, 500 gals 15% HCl, 681,084 scf of N<sub>2</sub>
- Stage 2: Benson/3rd Riley - 11 holes (4762'-4675') Breakdown 2440 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 37,000 lbs 20/40 sand, 500 gals 15% HCl, 642,000 scf of N<sub>2</sub>
- Stage 3: Balltown - 13 holes (3933.5'-3893.5') Breakdown 3250 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 40,000 lbs 20/40 sand, 1000 gals 15% HCl, 615,272 scf of N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	10	
Sand			10	40	
Sandy Shale			40	75	
Sand			75	130	
Sandy Shale and Red Rock			130	150	
Sandy Shale			150	220	
Sand			220	370	
Sandy Shale			370	470	
Sand			470	480	
Sandy Shale			480	555	
Sandy Shale and Red Rock			555	695	
Sand			695	735	
Sandy Shale			735	850	
Shale			850	930	
Sand and Shale			930	1822	
Big Lime			1822	1892	
Big Injun			1892	1968	
Shale and Sandy Shale			1968	2098	
Weir			2098	2218	
Shale			2218	2298	
Berea			2298	2304	
Shale and Sandy Shale			2304	3148	
Warren			3148	3192	
Shale and Sandy Shale			3192	4328	
Riley			4328	4376	
Shale and Sandy Shale			4376	4670	
3rd Riley			4670	4710	
Shale			4710	4759	
Benson			4759	4764	
Shale and Sandy Shale			4764	4998	
Alexander			4998	5104	
Shale and Sandy Shale			5104	5283 T.D.	

GAS CHECKS:

1997' - 50/10 thru 2" w/water  
 2090' - 50/10 thru 2" w/water  
 2305' - 50/10 thru 2" w/water  
 2582' - 46/10 thru 2" w/water  
 3014' - 46/10 thru 2" w/water  
 3106' - 46/10 thru 2" w/water  
 3285' - 46/10 thru 2" w/water  
 3591' - 40/10 thru 2" w/water  
 3897' - 38/10 thru 2" w/water  
 4115' - 32/10 thru 2" w/water  
 4300' - 40/10 thru 2" w/water  
 4453' - 36/10 thru 2" w/water  
 4668' - 28/10 thru 2" w/water  
 4761' - 30/10 thru 2" w/water  
 4853' - 34/10 thru 2" w/water  
 4976' - 34/10 thru 2" w/water  
 5192' - 36/10 thru 2" w/water  
 1 Tbg down - 26/10 thru 2" w/water  
 DC's - 20/10 thru 2" w/water

10605

47-017-3832  
Issued 6/26/90

FORM WW-2B

Page 3 of 8

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

Expires 6/26/92

- 1) Well Operator: <sup>259</sup> Eastern American Energy Corporation <sup>1498° (7) 525</sup>
- 2) Operator's Well Number: Mert/J. Williams #5 - WVDOD001605 3) Elevation: 1092'
- 4) Well type: (a) Oil  or Gas /
- (b) If Gas: Production / Underground Storage /
- Deep  Shallow
- 5) Proposed Target Formation(s): Alexander <sup>439</sup>
- 6) Proposed Total Depth: 5270 feet
- 7) Approximate fresh water strata depths: 71' <sup>339'</sup>
- 8) Approximate salt water depths: OK None
- 9) Approximate coal seam depths: OK 852'
- 10) Does land contain coal seams tributary to active mine? Yes / No
- 11) Proposed Well Work: Drill and complete new well.
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS			CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 "	F-25	37.5	30'	-----	
Fresh Water	8-5/8"	J-55	20.0	1242'	1242'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5185'	5185'	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

RECEIVED  
 Division of Energy  
 MAY 09 90  
 Permitting  
 Oil and Gas Section

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond 50 Justly  Agent

0182

MAY 09 90

Permitting  
Oil and Gas Section

Page 1 of 8  
Form WW2-A  
(09/87)  
File Copy

1) Date: April 5, 1990  
2) Operator's well number  
Mert/J. Williams #5 - WVDOD001605  
3) API Well No: 47 - 017 - 3832  
State - County - Permit

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

4) Surface Owner(s) to be served:  
(a) Name Rosalie Huff  
Address 827 Bellaire  
Kermit, TX 79745  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Rt. 2, Box 135  
Salem, WV 26426  
Telephone (304)-782-1043

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties, by:  
\_\_\_\_\_ Personal Service (Affidavit attached)  
XX Certified Mail (Postmarked postal receipt attached)  
\_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Eastern American Energy Corporation  
By: John M. Paletti *John M. Paletti*  
Its: Designated Agent  
Address P.O. Box N  
Glenville, WV 26351  
Telephone (304) 462-5781

Subscribed and sworn before me this 6th day of July, 1990

John L. ... Notary Public  
My commission expires July 2, 1996