

Jamie 6/17/90

LATITUDE 39-10-00

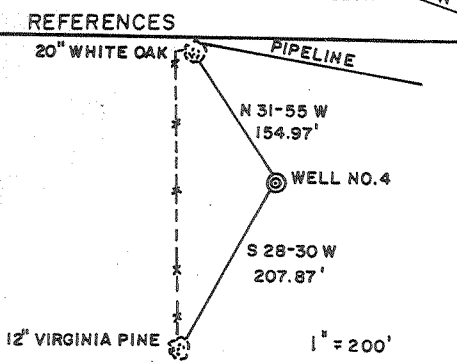
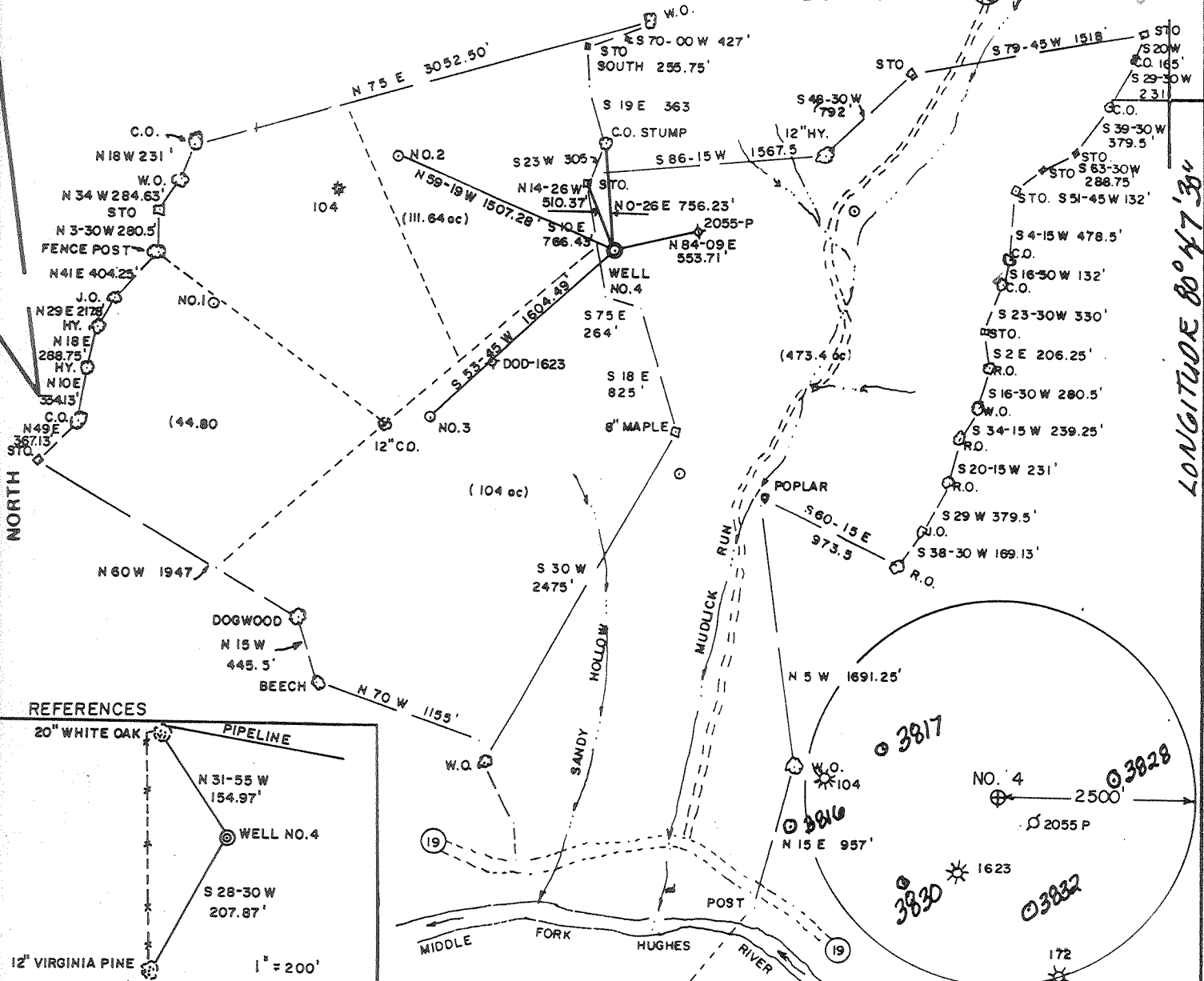
MERT / J. WILLIAMS No. 4

300'

3150'

0.575
0.080

LONGITUDE 80° 47' 30"



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 J. Davis*
 R.P.E. _____ L.L.S. 800

15' loc.
 0.575
 2.31W
 PLACE SEAL HERE

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



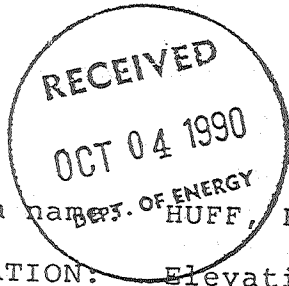
DATE MARCH 14th 19 90
 OPERATOR'S WELL NO. 4 (FOUR)
 API WELL NO. WVDODD001604
 47 - 017 - 3831
 STATE COUNTY PERMIT

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 1250' WATER SHED MUDLICK RUN OF MIDDLE FORK HUGHES RIVER
 DISTRICT SOUTH WEST 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- +
 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 5400'
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT JOHN M. PALETTI
 ADDRESS BOX N ADDRESS 501, 56th STREET
 GLENVILLE, WV 26351 259 CHARLESTON, WV 25304

6-6 Addarn (133)



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

Well Operator's Report of Well Work

Farm name: HUFF, ROSALIE

Operator Well No.: MERT/WILLIAMS 4, J.

LOCATION: Elevation: 1250.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 3150 Feet South of 39 Deg. 10 Min. 0 Sec.
Longitude 300 Feet West of 80 Deg. 47 Min. 30 Sec.

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

Agent: DONALD C. SUPCOE

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1423'	1423'	C.T.S.
4-1/2"	5320.80'	5320.80'	903

Inspector: MIKE UNDERWOOD
Permit Issued: 06/26/90
Well work Commenced: 08/27/90
Well work Completed: 09/18/90
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5422'
Fresh water depths (ft) 60'
Salt water depths (ft) N/A
Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

OPEN FLOW DATA

Riley (Commingled) 5204.5'-
Producing formation Alexander, Benson/3rd Riley, Pay zone depth (ft) 4480.5'
Gas: Initial open flow 413 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 246 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 620 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 OCT 5 1990
Date: September 20, 1990

OCT 5 1990

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

3-STAGE FOAM FRAC

- Stage 1: Alexander - 14 holes (5204.5'-5157.5') Breakdown 1750 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 70,000 lbs 20/40 sand, 500 gals 15% HCl, 571,000 scf of N₂
- Stage 2: Benson/3rd Riley - 13 holes (4893.5'-4804.5') Breakdown 2900 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 80/100 sand, 52,000 lbs 20/40 sand, 500 gals 15% HCl, 690,000 scf of N₂
- Stage 3: Riley - 13 holes (4494.5'-4480.5') Breakdown 2800 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 33,000 lbs 20/40 sand, 500 gals 15% HCl, 550,000 scf of N₂

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 and fill			0	10	1/2" stream water @ 60'
Sandy Shale			10	40	
Sand			40	120	
Sandy Shale and Red Rock			120	210	<u>GAS CHECKS:</u>
Sand			210	270	1969' - None
Sandy Shale and Red Rock			270	597	2125' - None
Sand			597	606	2217' - No show
Sandy Shale			606	1477	2401' - No show
Sandy Shale			1477	1655	2709' - No show
Sand			1655	1705	3017' - No show
Sandy Shale			1705	1906	3265' - No show
Little Lime			1906	1918	3419' - No show
Sand and Sandy Shale			1918	1954	3756' - No show
Big Lime			1954	2022	4004' - No show
Big Injun			2022	2096	4188' - No show
Shald and Sandy Shale			2096	2230	4436' - No show
Weir			2230	2330	4745' - No show
Shale and Sandy Shale			2330	2429	4868' - No show
Berea			2429	2435	4991' - 6/10 thru 1" w/water
Sand, Sandy Shale and Shale			2435	3295	5115' - 6/10 thru 1" w/water
Warren			3295	3326	5299' - No show
Sandy Shale, Shale and Tr. Sand			3326	4460	T.D. - Odor - No check
Riley			4460	4496	D.C. - Odor - No check
Shale and Sandy Shale			4496	4796	
3rd Riley			4796	4826	
Shale			4826	4890	
Benson			4890	4895	
Sandy Shale			4895	5130	
Alexander			5130	5238	
Shale and Sandy Shale			5238	5422 T.D.	

Ho 701

47 017-3831

Issued 6/26/90

Page 3 of 8

Expires 6/26/92

FORM WW-2B

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

- 1) Well Operator: ²⁵⁹ Eastern American Energy Corporation 14980 (71525)
- 2) Operator's Well Number: Mert/J. Williams #4 - WVDOD0016043 Elevation: 1250'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander 439
- 6) Proposed Total Depth: 5400 feet
- 7) Approximate fresh water strata depths: OK 229'
- 8) Approximate salt water depths: OK None
- 9) Approximate coal seam depths: OK 1010'
- 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	1400'	1400'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	5315'	5315'	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

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

For Division of Oil and Gas Use Only

10181
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Flat WW-9 WW-2B Bond Sanita Blanket Agent

Division of
 MAY 09 90
 Permitting
 Oil and Gas Section

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

1) Date: April 4, 1990
 2) Operator's well number
 Mert/J. Williams #4 - WVDOD001604
 3) API Well No: 47 - 017 - 3831
 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
 Its: Designated Agent
 Address P.O. Box N
 Glenville, WV 26351
 Telephone (304) 462-5781

Subscribed and sworn before me this 10th day of April, 1990

My commission expires July 2, 1996
 Notary Public