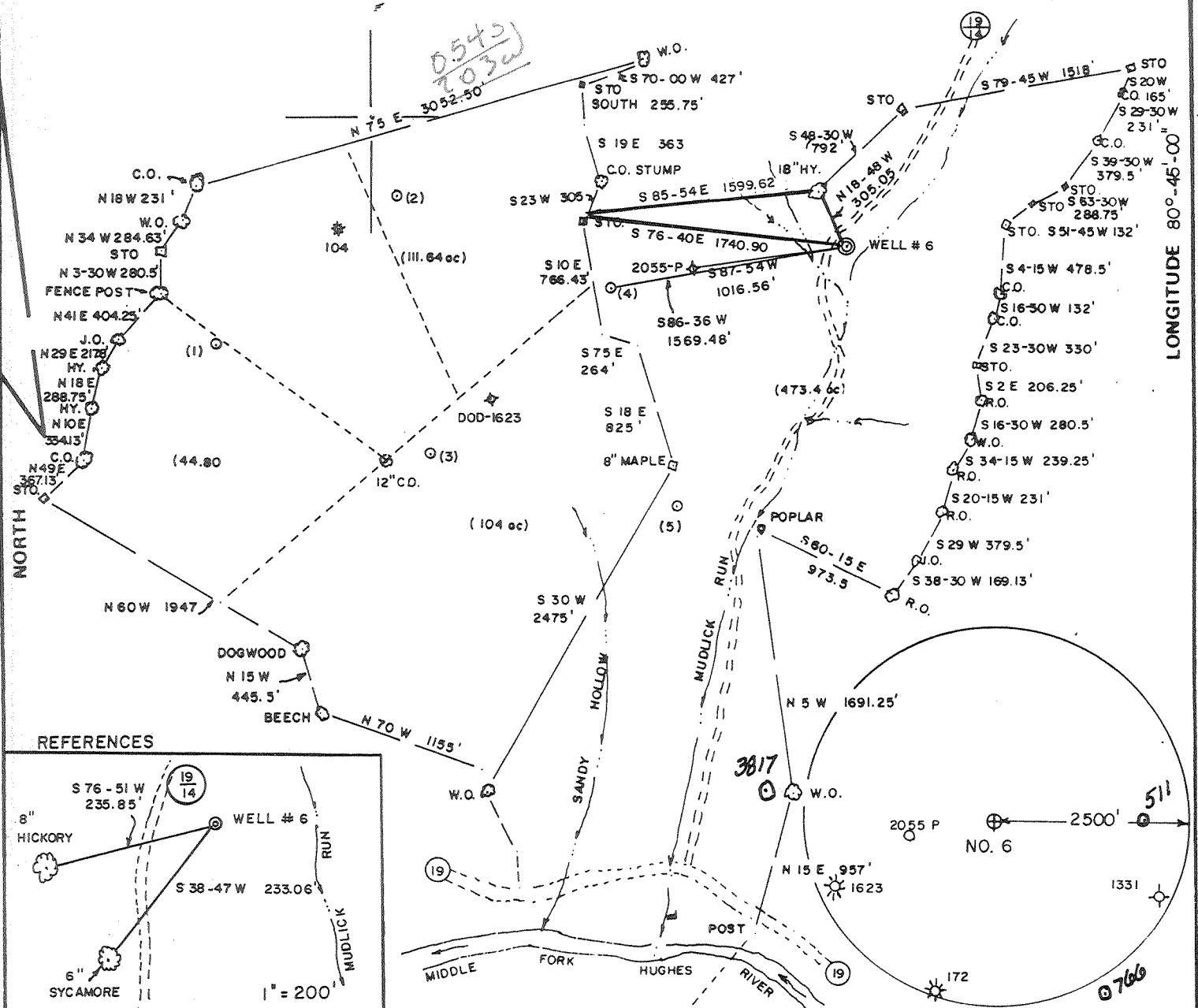


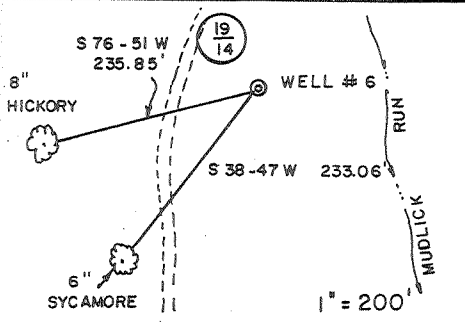
Jamie 5/18/90
MERT./J. WILLIAMS No.6

LATITUDE 39°-10'-00"

2875'



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. Davis
 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 (Six)
 API WELL NO WVDODD001606
47 - 017 - 3828
 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 ___ SHALLOW X
 LOCATION: ELEVATION 920' 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. WV01974- +
 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 ALEXANDER ESTIMATED DEPTH 5100'
 WELL OPERATOR EASTERN AMERICAN ENERGY DESIGNATED AGENT JOHN M. PALETTI
 ADDRESS BOX N ADDRESS 501, 56th STREET
GLENVILLE, WV 26351 257 CHARLESTON, WV 25304

JUN 14 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

Well Operator's Report of Well Work

Farm name: HUFF, ROSALIE Operator Well No.: MERT/WILLIAMS#6 J.

LOCATION: Elevation: 920.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 2875 Feet South of 39 Deg. 10Min. 0 Sec.
Longitude 10775 Feet West of 80 Deg. 45 Min. 0 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 06/11/90
Well work Commenced: 09/11/90
Well work Completed: 09/28/90
Verbal Plugging
Permission granted on:
Rotary Cable _____ Rig _____
Total Depth (feet) 5107'
Fresh water depths (ft) 60'

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"	1104'	1104'	C.T.S.
4-1/2"	5023.10'	5023.10'	851
1-1/2"	---	4819.55'	---

OPEN FLOW DATA

Riley, Balltown (Commingled)

Producing formation Alexander, Benson/3rd Riley, Pay zone depth (ft) 4911'-3702'
Gas: Initial open flow 531 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 381 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 895 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 10, 1990

OCT 30 1990

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

4-STAGE FOAM FRAC:

- Stage 1: Alexander - 13 holes (4911'-4851.5') Breakdown 2830 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 70,000 lbs 20/40 sand, 500 gals 15% HCl, 565,000 scf of N₂
- Stage 2: Benson/3rd Riley - 13 holes (4570'-4483.5') Breakdown 1580 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000# 80/100 sand, 62,000 lbs 20/40 sand, 500 gals 15% HCl, 760,000 scf of N₂
- Stage 3: Riley - 13 holes (4164.5'-4149') Breakdown 1300 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 26,000 lbs 20/40 sand, 500 gals 15% HCl, 500,000 scf of N₂
- Stage 4: Balltown - 13 holes (3750'-3702') Breakdown 2040 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 28,000 lbs 20/40 sand, 500 gals 15% HCl, 500,000 scf WELL LOG
of N₂

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Mud!			0	25	1" stream @ 60'
Sandy Shale			25	50	
Sand			50	70	
Sandy Shale			70	95	<u>GAS CHECKS:</u>
Sand			95	140	1663' - 4/10 thru 2" w/water
Sandy Shale and Red Rock			140	210	1787' - 4/10 thru 2" w/water
Sand			210	265	2094' - 2/10 thru 2" w/water
Sandy Shale			265	286	2400' - 2/10 thru 2" w/water
Sand			286	295	2705' - 2/10 thru 2" w/water
Sandy Shale			295	515	2891' - 2/10 thru 2" w/water
Sand			515	615	3108' - 2/10 thru 2" w/water
Sandy Shale			615	825	3416' - 2/10 thru 2" w/water
Sand			825	905	3694' - 14/10 thru 1" w/water
Sand and Shale			905	1596	4125' - 12/10 thru 1" w/water
Little Lime			1596	1611	4341' - 14/10 thru 1" w/water
Sand			1611	1650	4463' - 14/10 thru 1" w/water
Big Lime			1650	1732	4616' - 32/10 thru 1" w/water
Big Injun			1732	1786	4771' - 32/10 thru 1" w/water
Shale and Sandy Shale			1786	1930	5014' - 18/10 thru 1" w/water
Weir			1930	2020	D.C. - 12/10 thru 1" w/water
Shale			2020	2116	
Berea			2116	2122	
Shale and Sandy Shale			2122	2978	
Warren			2978	3008	
Sand, Shale and Sandy Shale			3008	4138	
Riley			4138	4182	
Shale and Sandy Shale			4182	4476	
3rd Riley			4476	4490	
Shale			4490	4566	
Benson			4566	4570	
Shale and Sandy Shale			4570	4820	
Alexander			4920	4912	
Shale and Sandy Shale			4912	5107 T.D.	

10606

017-3828
 Issued 6/11/90
 Expires 6/11/92
 Page 3 of 8

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 (7) 525
- 2) Operator's Well Number: Mert/J. Williams #6 - WVDOD001606 3) Elevation: 920'
- 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: 5100 feet
- 7) Approximate fresh water strata depths: OK 90', 600' @ 400-410'
- 8) Approximate salt water depths: OK None
- 9) Approximate coal seam depths: OK 680'
- 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	
Conductor	11 "	F-25	37.5	30'	-----	
Fresh Water	8-5/8"	J-55	20.0	1070'	1070'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5010'	5010'	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

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

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

01/83

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

1) Date: April 5, 1990
2) Operator's well number
Mert/J. Williams #6 - WVDOD001606
3) API Well No: 47 - 017 - 3828
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 April, 1990

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