

*Janice 7/29/88*

LATITUDE 39-22-30

# HADLEY LEASE

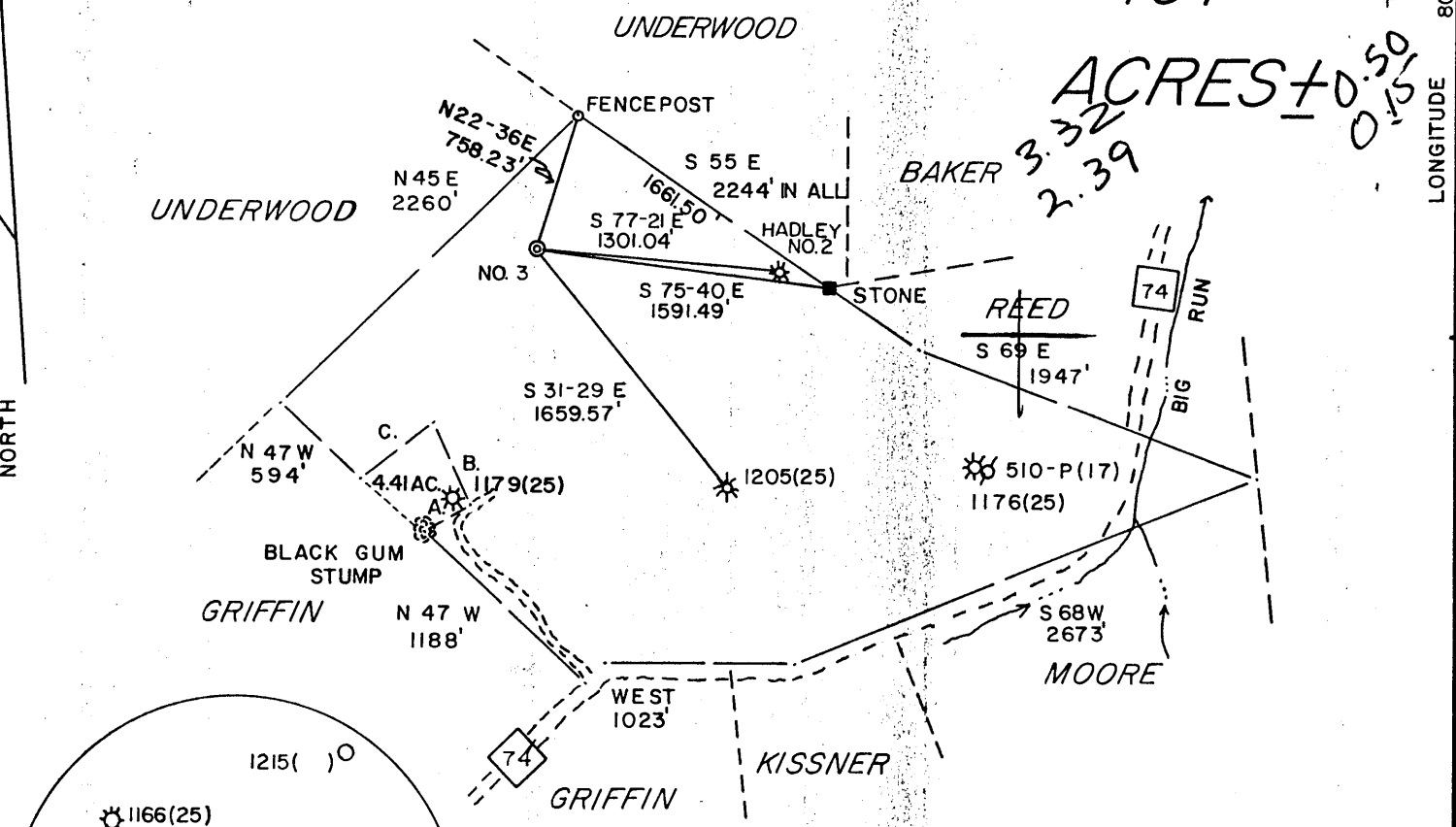
# HADLEY WELL NO. 3

191

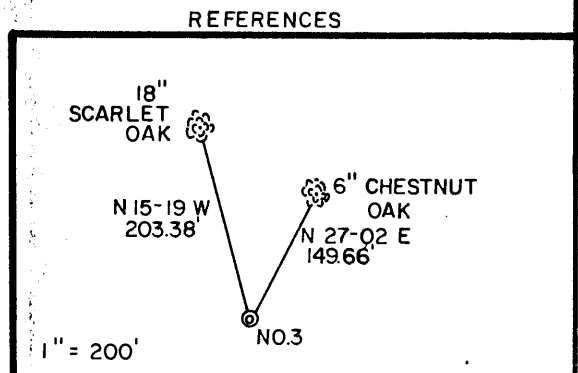
ACRES ± 0.50  
0.15  
3.32  
2.39

NORTH

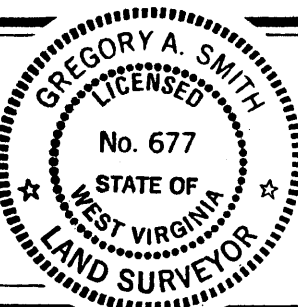
LONGITUDE 80-52-30



- A.) N 60 E 280.50'
- B.) N 24 W 490.17'
- C.) S 51-30W 495'



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 ENERGY.



L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JULY 1, 19 88  
 OPERATORS WELL NO. WVTYLOO201  
 API WELL NO. 47-095-1255  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1876(24-37,63)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB SCALE 1" = 1000'  
 ELEV. 1110'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 867' WATERSHED BRANCH OF BIG RUN QUADRANGLE PENNSBORO 7.5' 539  
 DISTRICT CENTERVILLE 1 COUNTY TYLER ACREAGE 191 133  
 SURFACE OWNER RUBEY HADLEY LEASE ACREAGE 191 S  
 ROYALTY OWNER RUBEY HADELY et al LEASE NO. \_\_\_\_\_  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON ESTIMATED DEPTH 4920 AUG 12 1988

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT DONALD SUPCOE  
 ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS BOX N GLENVILLE, WV 26351

6-6 Wilbur (92)

259

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: HADLEY, CLARENCE & RUBY Operator Well No.: HADLEY 3

LOCATION: Elevation: 867.00 Quadrangle: PENNSBORO

District: CENTERVILLE County: TYLER  
Latitude: 2680 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 800 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C  
501 56TH ST.  
CHARLESTON, WV

Agent: DONALD C. SUPCOE

Inspector: GLEN P. ROBINSON  
Permit Issued: 08/12/88  
Well work Commenced: 09/10/88  
Well work Completed: 09/24/88

Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 4951'  
Fresh water depths (ft) 100', 470'

Salt water depths (ft) None

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 103', 378'

Casings & Tubing Size	Used in Drillings	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1383.70'	1383.70'	C.T.S.
4-1/2"	4882.95'	4882.95'	656
1-1/2"	---	4357.85'	---



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Benson, Riley (Commingled) Pay zone depth (ft) 4784'-4386'  
Gas: Initial open flow 119 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 386 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 1000 psis (surface pressure) after 15 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 \_\_\_\_\_ psis (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.

*Rich Heffelfinger* OCT 28 1988  
For: EASTERN AMERICAN ENERGY CORP.  
Rich Heffelfinger  
By: Vice President - Operations Manager  
Date: October 20, 1988

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

2-STAGE FOAM FRAC

Stage 1: 8 holes (4781'-4780') Breakdown @ 1940 psi, 75 Quality Foam  
 45,000 lbs. of 20/40 sand, 830 Mscf of N<sub>2</sub>

Stage 2: 12 holes (4416.5'-4386') Breakdown @ 1720 psi, 75 Quality Foam  
 35,000 lbs. of 20/40 sand, 680 Mscf 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
Sand & Red Rock			0	27	
Red Rock & Shale			27	65	
Sand & Shale			65	103	
Coal			103	106	Damp @ 100'
Red Rock & Shale			106	232	Coal
Sand & Shale			232	291	
Sand, Shale & Red Rock			291	378	
Coal			378	380	Coal
Sand & Shale			380	673	1/8" stream water @ 470'
Red Rock & Shale			673	1000	
Sand & Shale			1000	1453	
Sand			1453	1544	Gas checks as follows:
Shale & Sand			1544	1664	1900' 2/10 thru 2" w/water
Dark Shale			1664	1667	2100' 6/10 thru 2" w/water
Sand & Shale			1667	1740	2600' 16/10 thru 2" w/water
Big Lime			1740	1793	3000' 10/10 thru 2" w/water
Big Injun			1793	1944	4000' 6/10 thru 2" w/water
Sand & Shale			1944	2112	4350' 6/10 thru 2" w/water
Weir			2112	2228	4500' 8/10 thru 2" w/water
Sand & Shale			2228	3212	4700' 8/10 thru 2" w/water
Warren			3212	3280	4950' 8/10 thru 2" w/water
Sand & Shale			3280	4370	D.C.'s 8/10 thru 2" w/water
Riley			4370	4420	
Sand & Shale			4420	4776	
Benson			4776	4790	
Sand & Shale			4790	4950 T.D.	

RECEIVED  
 OCT 26 1988

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

OCT 28 1988

(Attach separate sheets as necessary)

7435

RECEIVED  
JUL 18 1988

RECEIVED  
AUG 12 1988

095-1255  
Issued 8/12/88 Expires 8/12/89

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

- 1) Well Operator: Eastern American Energy Corporation *14980, 1, 538*
- 2) Operator's Well Number: Hadley #3 (WVTL000201) 3) Elevation: 867'
- 4) Well type: (a) Oil    / or Gas XX /  
(b) If Gas: Production XX / Underground Storage    /  
Deep    / Shallow XX /
- 5) Proposed Target Formation(s): Benson Test *235*
- 6) Proposed Total Depth: 4920' feet
- 7) Approximate fresh water strata depths: 460'
- 8) Approximate salt water depths: 1300'
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes    / No X /
- 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	32'	0	-----
Fresh Water	8 5/8"	J-55	20.0	500'	500'	C.T.S. 38CSR18-11.5
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	4920'	4920'	375 cu. ft. 38CSR18-11.5
Tubing	1-1/2"	H-40	2.75		3500'	-----
Liners						

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

7435

*165 000*  
*Al 2/26*

For Division of Oil and Gas Use Only

Fee(s) paid:    Well Work Permit    Reclamation Fund    WPCP     
Plat    WW-9    WW-2B    Bond 50 Blanket Agen     
(Type)

**RECEIVED**  
JUL 18 1988

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: July 6, 1988  
Operator's well number  
Hadley #3 (WVTYL000201)  
API Well No: 47 - 095 - 1255  
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 Clarence & Ruby Hadley  
Address HC 74, Box 60  
Alma, WV 26320  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Robert Lowther  
Address General Delivery  
Middlebourne, WV 26149  
Telephone (304)-758-4764

5) (a) Coal Operator:  
Name \_\_\_\_\_  
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

\_\_\_\_\_ 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)
- \_\_\_\_\_ 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: [Signature]  
Its: Designated Agent  
Address P.O. Box N  
Glenville, WV 26351  
Telephone (304) 462-5781

Subscribed and sworn before me this 15th day of July, 1988

Edra Marie Huff Notary Public  
My commission expires August 2, 1993