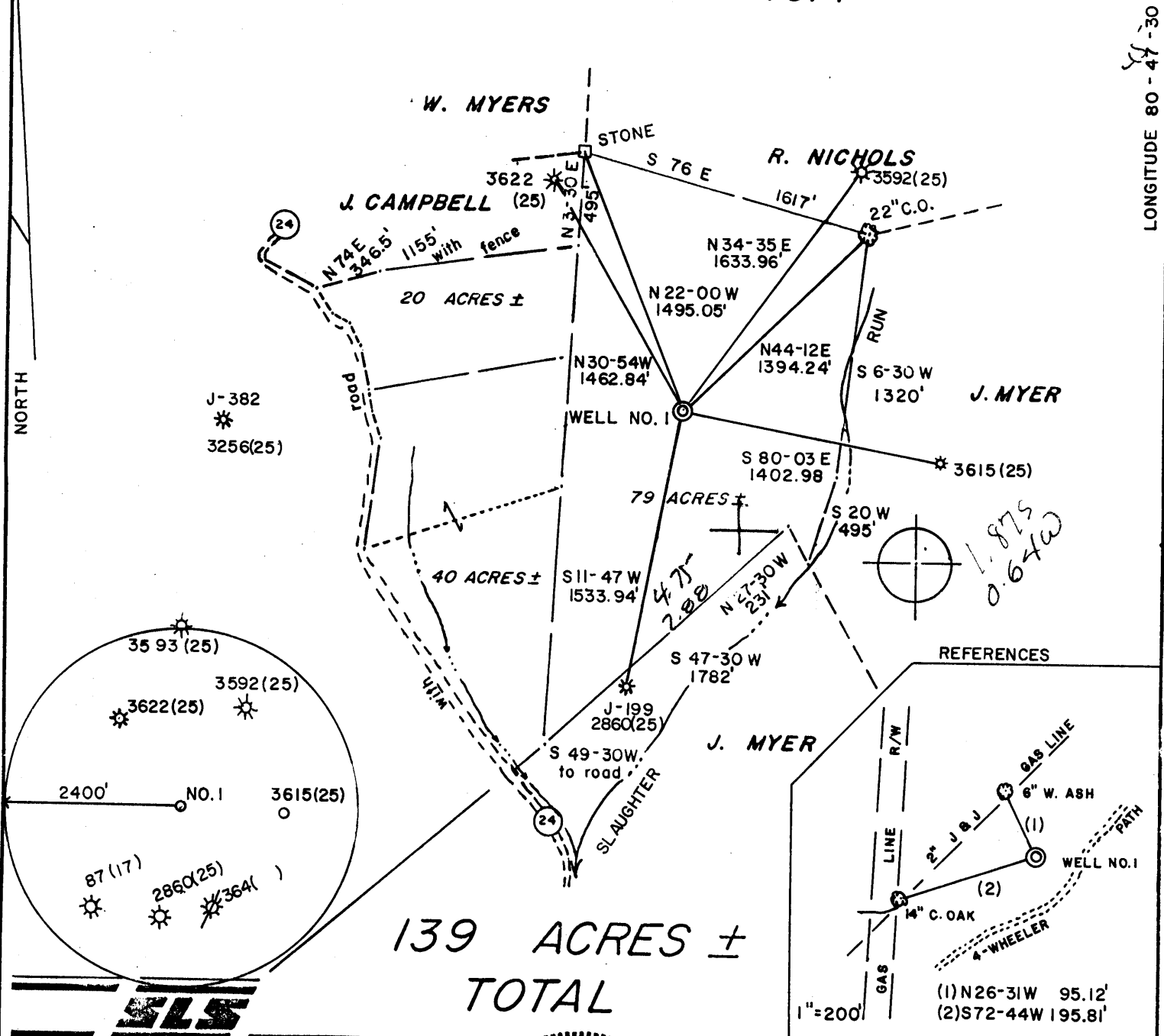


Janie 5/3/89  
HUSK LEASE

# WELL NO. 1

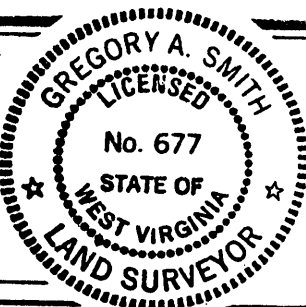


NORTH

LONGITUDE 80 - 47 - 30

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. Gregory A. Smith  
677



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE APRIL 14, 19 89  
 OPERATORS WELL NO. HUSK NO.1  
 WVRITOOIOOI  
 API WELL NO. 47 - 017 - 3718  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1718 24/5  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB, ELEV. 1282' SCALE 1" = 800'

**STATE OF WEST VIRGINIA**  
 DEPARTMENT OF ENERGY  
**OIL AND GAS DIVISION**



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1205' WATERSHED SLAUGHTER RUN QUADRANGLE WEST UNION 7.5'671  
 DISTRICT WEST UNION 4 COUNTY DODDRIDGE ACREAGE 139 133  
 SURFACE OWNER HAROLD W. GAIN et ux. LEASE ACREAGE 79 of 139  
 ROYALTY OWNER DALE HUSK LEASE NO. WV01749-1  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X 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 5250' 22 1989

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI  
 ADDRESS BOX N GLENVILLE, WV. 26351 ADDRESS 501 56TH ST. CHARLESTON, WV. 25304

COUNTY NAME PERMIT

WF-35

**RECEIVED**  
SEP 19 1989

16-May-89  
API # 47- 17-03718

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

DIVISION OF OIL & GAS  
**DEPT. OF ENERGY**

Operator's Report of Well Work

Farm name: GAIN, HAROLD W. Operator Well No.: HUSK 1

LOCATION: Elevation: 1205.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE  
Latitude: 9970 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 3350 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY C  
501 56TH ST.  
CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 05/16/89  
Well work Commenced: 06/30/89  
Well work Completed: 07/11/89  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5272'  
Fresh water depths (ft) 231'  
Salt water depths (ft) None

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1357.45'	1357.45'	C.T.C.
4-1/2"	5155.90'	5155.90'	250
1-1/2"	----	5041.40'	

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): 304'

OPEN FLOW DATA

Producing formation Benson, Riley (Commingled) Pay zone depth (ft) 5081.5'-4649

Gas: Initial open flow 474 MCF/d Oil: Initial open flow N/A Bbl/d  
 Final open flow 353 MCF/d Final open flow N/A Bbl/d  
 Time of open flow between initial and final tests 15 Hours  
 Static rock Pressure 1250 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: July 21, 1989

SEP 25 1989

FORM NR-35  
(REVERSE)

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

2-Stage Foam Frac

Stage 1 (Benson) 10 holes (5081.5'-5078.5') Breakdown 1750 psi, 60 quality foam, 47,100 lbs. 20/40 sand, 500 gal. 15% HCl, 576,800 scf of N<sub>2</sub>

Stage 2 (Riley) 10 holes (4669.5'-4649.5') Breakdown 1950 psi, 75 quality foam, 30,000 lbs. 20/40 sand, 500 gal. 15% HCl, 754,900 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	20	
Shale and Red Rock			20	60	
Sand			60	70	
Shale and Red Rock			70	221	
Sand			221	263	1/2" water @ 231'
Shale			263	304	
Coal			304	308	Coal
Sand and Shale			308	1986	
Sand, Shale, Lime			1986	2030	
Big Lime			2030	2098	
Sand and Shale			2098	2211	GAS CHECKS AS FOLLOWS:
Shale			2211	2368	2017' - No Show
Weir Sand			2368	2471	2301' - 20/10 thru 1" w/water
Sand and Shale			2471	3445	3628' - 30/10 thru 1" w/water
Warren Siltstone and Sand			3445	3515	4688' - 40/10 thru 1" w/water
Siltstone and Shale			3515	4613	5049' - 40/10 thru 1" w/water
Riley Sand			4613	4680	
Siltstone and Shale			4680	5072	
Benson Sand			5072	5112	
Shale			5112	5276 T.D.	

017-3718

(Attach separate sheets as necessary)

13

44-017-3718  
Issued 5/16/89 Expires 5/16/91  
Page 3 of 8

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

- 1) Well Operator: <sup>255</sup> Eastern American Energy Corporation 14980, 8, 670
- 2) Operator's Well Number: HUSK #1 - WVDOD001001
- 3) Elevation: 1205'
- 4) Well type: (a) Oil  or Gas 
  - (b) If Gas: Production  / Underground Storage 
    - Deep  / Shallow
- 5) Proposed Target Formation(s): Benson 435
- 6) Proposed Total Depth: 5250 feet
- 7) Approximate fresh water strata depths: 112', 332', 652', 490', 710'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None 395'-400', 825'-830'
- 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	1355'	1355'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2
Intermediate						
Production	4 1/2"	<sup>P</sup> J-55	10.5	5165'	5165'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

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APR 27 1989

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_  
DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

For Division of Oil and Gas Use Only

2974  
H  
Fee(s) paid:     Well Work Permit     Reclamation Fund     WPCP  
Plat     WW-9     WW-2B     Bond 50 blanket gen.     Agen  
(Type)

**RECEIVED**  
APR 27 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date: April 19, 1989  
Operator's well number  
HUSK #1 - WVDOD001001  
API Well No: 47 - 017 - 3718  
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 Harold W. Gain  
Address Rt. 3, Box 567  
Clarksburg, WV 26301  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Mike Underwood  
Address Route 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 19th day of April, 1989

My commission expires July 2, 1996 Notary Public