

Janie 7/7/89

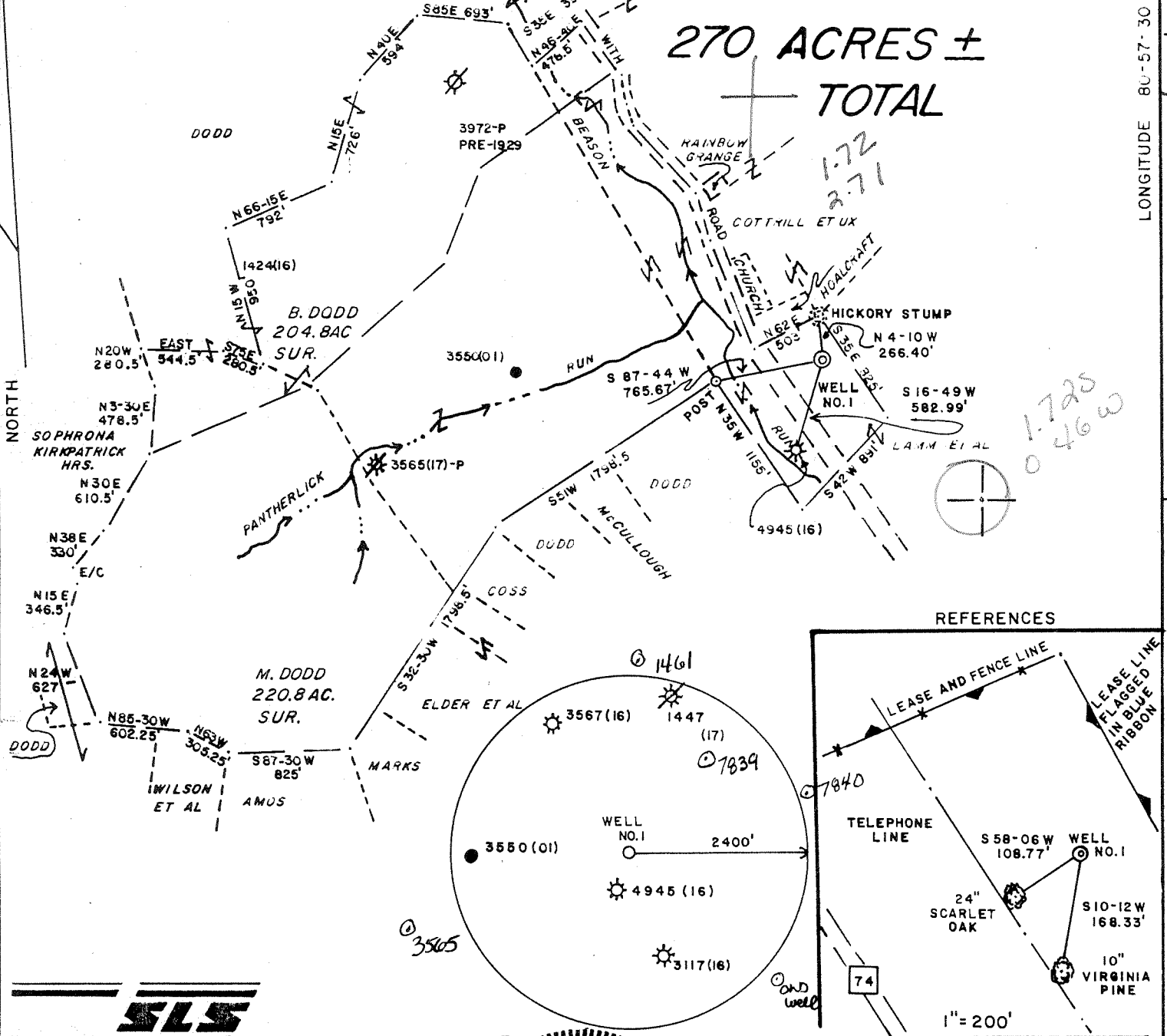
LATITUDE 39-15-00

BLAUSER-L.C. WILSON LEASE

WELL NO. 1

COTTRILL ET UX

270 ACRES ± TOTAL



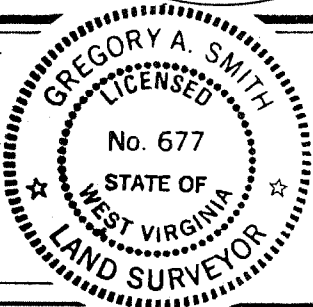
NORTH

LONGITUDE 80-57-30



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*
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(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JUNE 21, 19 89
 OPERATORS WELL NO. BLAUSER/L.C. WILSON
 NO. 1
 API WELL NO. 47-085-7870
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2072 (29-12)
 SCALE 1" = 1000'
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION - 1264'

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 943' WATERSHED BEASON RUN
 DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PULLMAN 7.5' 562
 SURFACE OWNER JACK E. LAMM et al. ACREAGE 27.85 058
 ROYALTY OWNER L.C. WILSON HIERS et al LEASE ACREAGE 270
 PROPOSED WORK: LEASE NO. WV01916
 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 ALEXANDER
 ESTIMATED DEPTH 5150'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI JUL 21 1989
 ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56TH ST. CHARLESTON, WV 25304

6-6 Beason Run (129)

COUNTY NAME
PERMIT

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

Well Operator's Report of Well Work

Farm name: LAMM, JACK E. ETAL. Operator Well No.: BLAU/WILSON #1 L.C.

LOCATION: Elevation: 943.00 Quadrangle: PULLMAN

District: CLAY County: RITCHIE
Latitude: 9140 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 2460 Feet West of 80 Deg. 57 Min. 30 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: SAMUEL HERSMAN
Permit Issued: 07/20/89
Well work Commenced: 08/05/89
Well work Completed: 08/20/89
Verbal Plugging _____
Permission granted on: _____
Rotary X Cable _____ Rig _____
Total Depth (feet) 4667'
Fresh water depths (ft) 240'

Salt water depths (ft) 1430', 1431'

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"	1072.40'	1072.40'	C.T.S.
4-1/2"	4462.40'	4462.40'	420
1-1/2"	---	4328.95'	---

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

OPEN FLOW DATA

Producing formation Riley, Warren (Commingled) Pay zone depth (ft) 4385'-3262'
Gas: Initial open flow 581 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 377 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1275 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 27, 1989

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

2-STAGE FOAM FRAC

Stage 1: Riley - 12 holes (4385'-4356.5') Breakdown 1525 psi, 75 Quality foam,
30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl, 602,000 scf of N₂

Stage 2: Warren - 13 holes (3295'-3262.5') Breakdown 2100 psi, 75 Quality foam,
30 lbs/1000 gals Gel, 21,800 lbs 20/40 sand, 650 gals 28% HCl, 499,900 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
Soil			0	15	1/2" water @ 240'
Sand and Shale			15	56	Hole wet @ 1430'
Shale and Red Rock			56	196	1/2" water - Soap Hole @ 1431'
Sand and Shale			196	215	
Shale and Red Rock			215	238	
Sand			238	261	
Sand, Shale and Red Rock			261	321	
Sand and Shale			321	352	<u>Gas checks:</u>
Shale and Red Rock			352	467	1762' - No show
Sand and Shale			467	563	2269' - No show
Sand, Shale and Red Rock			563	688	2963' - No show
Sand and Shale			688	719	3250' - 50/10 thru 1/2" w/water
Red Rock			719	751	3724' - 60/10 thru 1/2" w/water
Sand, Shale and Red Rock			751	783	4356' - 30/10 thru 1/2" w/water
Lime			783	802	T.D. - 10/10 thru 1/2" w/water
Shale and Red Rock			802	940	
Sand and Shale			940	1098	
Sand, Shale and Red Rock			1098	1161	
Sand and Shale			1161	1414	
Sand			1414	1450	
Shale			1450	1600	
Sand			1600	1635	
Sand and Shale			1635	1800	
Big Lime			1800	1850	
Sand and Shale			1850	1953	
Shale			1953	2180	
Weir			2180	2242	
Siltstone			2242	2278	
Shale w/Tr. Sand			2278	3254	
Warren			3254	3323	
Shale w/Tr. Sand			3323	4347	
Riley			4347	4411	
Shale w/Tr. Sand			4411	4664 T.D.	

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DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

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47-085-7870

Issued 7/20/89 Expires 7/20/91

FORM WW-2B

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

- 1) Well Operator: Eastern American Energy Corporation 14980 (1) 561
- 2) Operator's Well Number: BLAUSER/L.C. WILSON #1 3) Elevation: 943'
WVRIT003301
- 4) Well type: (a) Oil / or Gas XX/
(b) If Gas: Production XX/ Underground Storage /
Deep / Shallow XX/
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5150 feet
- 7) Approximate fresh water strata depths: 25', 880'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes / No XX/
- 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	1075'	1075'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	5070'	5070'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

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PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

4500 15

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

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: June 22, 1989
2) Operator's well number
BLAUSER/L.C. WILSON #1 - WVRIT003301
3) API Well No: 47 - 085 - 7870
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 Jack E. Lamm, et al
Address c/o Kathleen J. Vincent
Rt. 2, Box 17
(b) Name Pennsboro, WV 26415
Address _____
(c) Name _____
Address _____
6) Inspector Samuel Hersman
Address Rt. 1, Box 240
Harrisville, WV 26362
Telephone (304)- 628-3185

5) (a) Coal Operator:
Name None
Address _____
(b) Coal Owner(s) with Declaration
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 22nd day of June, 1989

My commission expires July 2, 1996 *Jo Lorraine Lowe* Notary Public