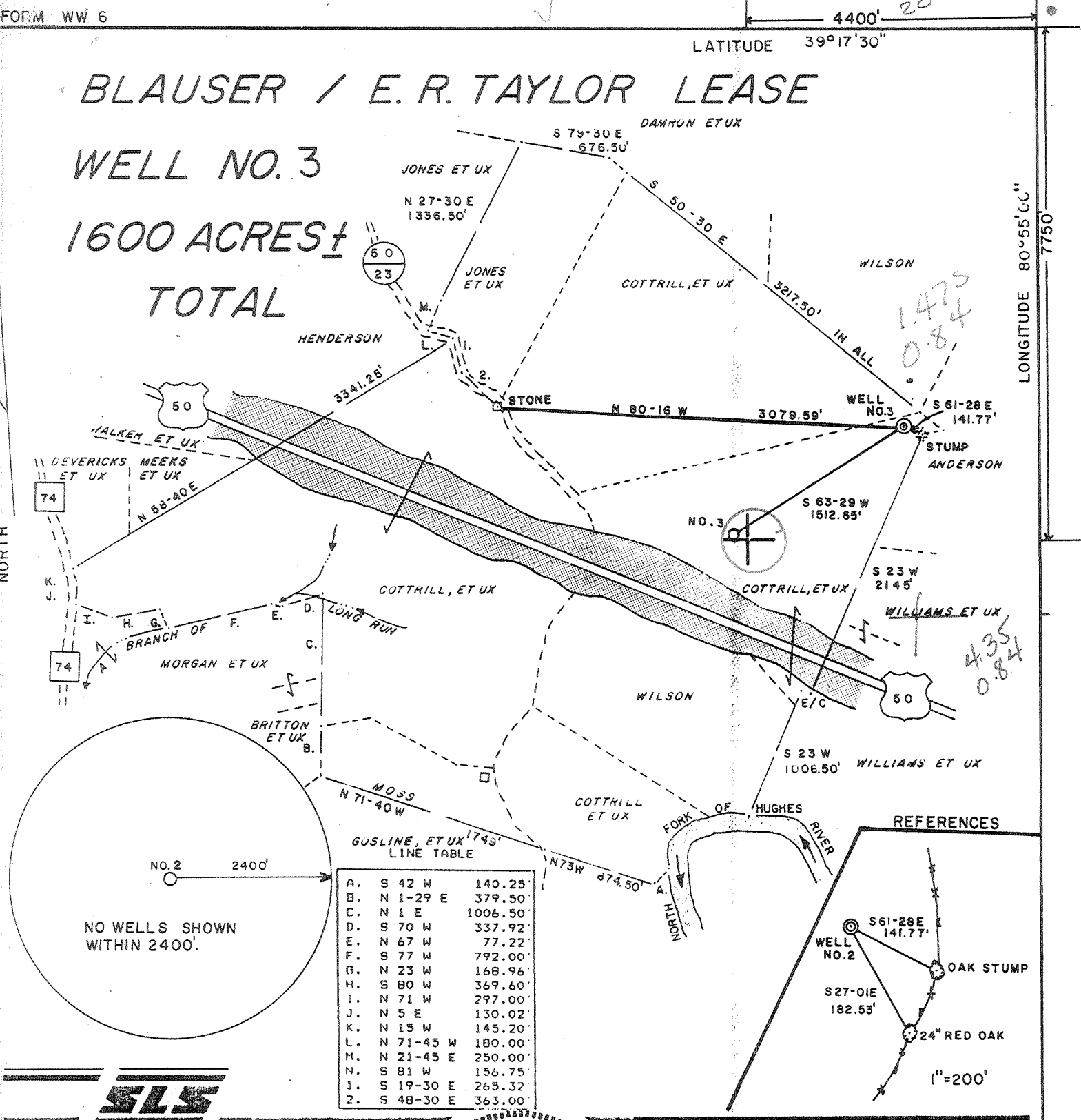


LATITUDE 39°17'30"

BLAUSER / E. R. TAYLOR LEASE

WELL NO. 3 1600 ACRES ± TOTAL



GUSLINE, ET UX 1749' LINE TABLE

A.	S 42 W	140.25'
B.	N 1-29 E	379.50'
C.	N 1 E	1006.50'
D.	S 70 W	337.92'
E.	N 67 W	77.22'
F.	S 77 W	792.00'
G.	N 23 W	168.96'
H.	S 80 W	369.60'
I.	N 71 W	297.00'
J.	N 5 E	130.02'
K.	N 15 W	145.20'
L.	N 71-45 W	180.00'
M.	N 21-45 E	250.00'
N.	S 81 W	156.75'
1.	S 19-30 E	265.32'
2.	S 48-30 E	363.00'

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 MAY 17, 19 89

OPERATORS WELL NO. E.R.TAYLOR NO.3
WVRI003203

API WELL NO. 47 - 085 - 7856

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2066(29,1-2)

PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1192' SCALE 1"=1000'

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 974' WATERSHED NORTH FORK OF HUGHES RIVER West Union SW

DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5 539

SURFACE OWNER RAY & VIRGINIA COTTRILL ACREAGE 57.63 133

ROYALTY OWNER E. R. TAYLOR HEIRS et al LEASE ACREAGE 57.63 OF 1600 7

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 ALEXANDER ESTIMATED DEPTH 5250'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI JUN 26 1989

ADDRESS P.O. BOX N GLENVILLE, WV 26351 ADDRESS 501 56th ST. CHARLESTON, WV 25304

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

Well Operator's Report of Well Work

Farm name: COTTRILL, RAY Operator Well No.: BLAU/TAYLOR 3 E.R.
LOCATION: Elevation: 974.00 Quadrangle: PENNSBORO
District: CLAY County: RITCHIE
Latitude: 7750 Feet South of 39 Deg. 17Min. 30 Sec.
Longitude 4400 Feet West of 80 Deg. 55 Min. 0 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: SAMUEL HERSMAN
Permit Issued: 06/19/89
Well work Commenced: 07/25/89
Well work Completed: 08/12/89
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 5,314'
Fresh water depths (ft) 50', 1040'

Salt water depths (ft) 1,295'

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"	1139'	1139'	C.T.C.
4-1/2"	5181.05'	5181.05'	600

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OPEN FLOW DATA

(Commingled)

Producing formation Alexander, Riley, Warren Pay zone depth (ft) ^{5068'} 3280.5'
Gas: Initial open flow 471 MCF/d Oil: Initial open flow Bbl/d
Final open flow 324 MCF/d Final open flow Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1180 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. OCT 6 1989
Rich Heffelfinger
By: Vice President - Regional Operations
Date: September 27, 1989

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

3-STAGE FOAM FRAC

STAGE 1: Alexander: 10 holes (5068'-5062') Breakdown 1840 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 25,000 lbs 20/40 sand, 500 gals 15% HCl, 405,900 scf of N₂

STAGE 2: Riley: 12 holes (4437'-4410') Breakdown 2910 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 30,000 lbs 20/40 sand, 500 gals 15% HCl, 627,600 scf of N₂

STAGE 3: Warren: 11 holes (3328.5'-3280.5') Breakdown 3330 psi, 75 Quality foam, 30 lbs/1000 gals Gel, 650 gals 28% HCl, 498,300 scf of N₂

WELL LOG

FORMATION	COR	WAPD	C	SO.	OP	LET	B	OM	LET	REMARKS
										Including indication of all fresh and salt water, coal, oil and gas
Fill					0			10		1/2" stream water @ 50'
Sand, Shale and Red Rock					10			265		
Sand and Shale					265			867		
Red Rock					867			960		
Sand and Shale					960			1748		1/2" stream water @ 1040'
Little Lime					1748			1764		Damp @ 1295'
Shale					1764			1788		
Big Lime					1788			1863		
Big Injun					1863			1968		<u>GAS CHECKS:</u>
Shale					1968			2174		2035' - No show
Weir					2174			2288		2341' - 6/10 thru 2" w/water
Sand and Shale					2288			3264		3262' - 4/10 thru 2" w/water
Warren					3264			3334		3355' - 10/10 thru 2" w/water
Sand and Shale					3334			4404		3875' - 8/10 thru 2" w/water
Riley					4404			4440		4337' - 6/10 thru 2" w/water
Sand and Shale					4440			4780		4491' - 8/10 thru 2" w/water
Benson					4780			4786		4708' - 6/10 thru 2" w/water
Sand and Shale					4786			5016		4862' - 12/10 thru 2" w/water
Alexander					5016			5096		5017' - 12/10 thru 2" w/water
Sand and Shale					5096			5300 T.D.		5109' - 30/10 thru 2" w/water
										T.D. - 8/10 thru 2" w/water

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DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

8444

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, 538
- 2) Operator's Well Number: BLAUSER/E.R. TAYLOR #3 3) Elevation: 974'
WRIT003203
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage
Deep Shallow
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5250 feet
- 7) Approximate fresh water strata depths: 225', 410'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 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	1100'	1100'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	5160'	5160'	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

3011
12 Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond 500000 Agent
(Type)

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

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

1) Date: May 24, 1989
2) Operator's well number
BLAUSER/E.R. TAYLOR #3 - WVRIT003203
3) API Well No: 47 - 085 - ~~888~~ 7856
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:	5) (a) Coal Operator:
(a) Name <u>Ray Cottrill</u>	Name <u>None</u>
Address <u>Rt. 1</u>	Address _____
<u>Pennsboro, WV 26415</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	_____
Address _____	Name _____
_____	Address _____
6) Inspector <u>Samuel Hersman</u>	(c) Coal Lessee with Declaration
Address <u>Rt. 1, Box 240</u>	Name _____
<u>Harrisville, WV 26362</u>	Address _____
Telephone <u>(304)-628-3185</u>	_____

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 24th day of May, 1989

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