

Jamie
4/26/93

SECRET c/o WALLACE

ASHLAND / MAXWELL LEASE

Page 4 of 8

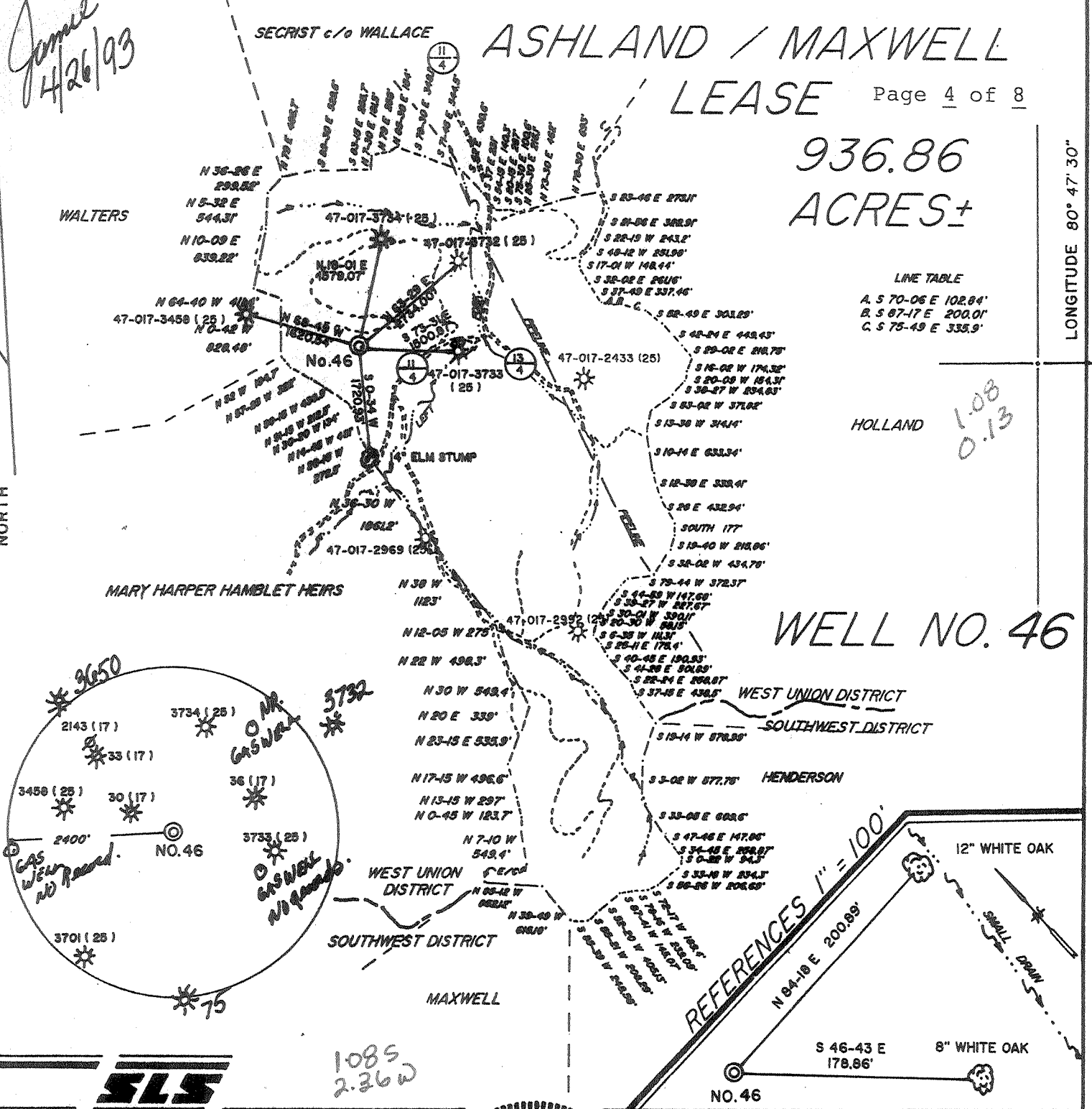
936.86 ACRES±

LINE TABLE

- A. S 70-06 E 102.84'
- B. S 67-17 E 200.01'
- C. S 75-49 E 335.9'

LONGITUDE 80° 47' 30" 5,690'

NORTH

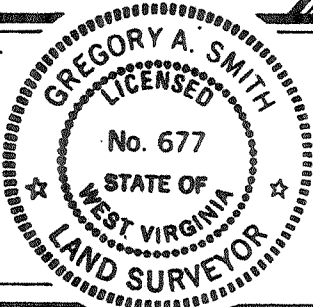


WELL NO. 46



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 MARCH 2, 19 93
 OPERATORS WELL NO. ASHLAND / MAXWELL
 WELL NO. 46
 API WELL NO. 47 - 017 - 4017
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2777 (42-36)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION 1323' SCALE 1" = 2000'

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 1081' WATERSHED LEFT FORK OF ARNOLDS CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'
 SURFACE OWNER CHARLES P. HEASTER ET. AL. ACREAGE 936.86
 ROYALTY OWNER LEWIS MAXWELL HEIRS ET. AL. LEASE ACREAGE 936.86 OF 2654
 PROPOSED WORK: LEASE NO. WY02358 - 1
 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 5217'

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

COUNTY NAME PERMIT

RECEIVED
WV Dept of
Environmental Protection

NOV 18 93

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting

Well Operator's Report of Well Work

Farm name: HEASTER, CHARLES P. ETAL Operator Well No.: ASH/MAXWELL #46

LOCATION: Elevation: Quadrangle:

District: WEST UNION County: DODDRIDGE
Latitude: Feet South of Deg. Min. Sec.
Longitude: Feet West of Deg. Min. Sec.

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

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD
Permit Issued: 04/27/93
Well work Commenced: 06/07/93
Well work Completed: 06/19/93
Verbal Plugging
Permission granted on:
Rotary XX Cable _____ Rig
Total Depth (feet) 5364'
Fresh water depths (ft) 51', 625'

Salt water depths (ft) 1280'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): None

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			CTS
8-5/8"	1204.15'	1204.15'	285 sxs
4-1/2	-----	5186.55'	745 sxs

OPEN FLOW DATA

(Commingled) 2nd Riley, Riley, Balltown 5122'-
Producing formation Alexander, Benson, 3rd Riley Pay zone depth (ft) 3704.5'
Gas: Initial open flow 1592 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 1501 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1300 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: Ronald L. Rech
EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager
Date: November 17, 1993

TMG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Clay			0	3	
Sand & Shale			3	35	
Sand, Shale & Red Rock			35	185	1/2" stream water @ 51'
Sand & Shale			185	329	
Red Rock			329	338	
Sand & Shale			338	368	
Red Rock			368	384	
Sand & Shale			384	486	
Red Rock			486	492	
Sand & Shale			492	501	
Red Rock			501	523	
Sand & Shale			523	647	1/4" stream water @ 625'
Red Rock			647	675	
Sand, Shale & Red Rock			675	925	
Coal			925	930	Coal
Sand & Shale			930	1227	
Sand			1227	1305	2" stream water @ 1280'
Sand & Shale			1305	1714	
Little Lime			1714	1742	
Shale			1742	1755	
Big Lime			1755	1816	
Big Injun			1816	1904	
Shale			1904	2058	
Weir			2058	2170	
Shale			2170	2262	
Berea			2262	2270	Gas Checks:
Shale			2270	2456	2363' - No Show
Gordon			2456	2497	2553' - 4/10 thru 1" w/water (21 MCF)
Sand & Shale			2497	3148	2805' - 2/10 thru 1" w/water (15 MCF)
Warren			3148	3182	DC -20/10 thru 1" w/water (47 MCF)
Shale			3182	3202	
Speechley			3202	3290	
Sand & Shale			3290	3680	
Balltown			3680	3724	
Sand & Shale			3724	3881	
Balltown			3881	3932	
Sand & Shale			3932	4320	
Riley			4320	4367	
Sand & Shale			4367	4600	
2nd Riley			4600	4616	
Sand & Shale			4616	4684	
3rd Riley			4684	4716	
Shale			4716	4772	
Benson			4772	4780	
Sand & Shale			4780	5040	
Alexander			5040	5132	
Shale			5132	5364	
Total Depth				5364	

17068

DF-424
DFT-439

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

4 Stage Frac

Stage One

Alexander: 20 holes (5077'-5122'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 51,900 lbs of 20/40 sand, 500 gals of 15% HCL acid and 104,000 scf of N2.

Stage Two

Benson/3rd Riley/2nd Riley: 15 holes (4608.5'-4778'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 50,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 107,800 scf of N2.

Stage Three

Riley: 15 holes (4335'-4364'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 26,750 lbs of 20/40 sand, 500 gals of 15% HCL acid and 65,900 scf of N2.

Stage Four

Balltown: 15 holes (3704.5'-3929'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 26,700 lbs of 20/40 sand, 500 gals of 15% HCL acid and 63,000 scf of N2.

017 - 4017
 Issued 04/27/93
 Page 3 of 8
 Expires 04/27/95

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

- 1) Well Operator: Eastern American Energy Corporation ²⁵⁹ , 4980 (8) 525
- 2) Operator's Well Number: Ashland/Maxwell #46 3) Elevation: 1081'
- 4) Well type: (a) Oil / or Gas XX/
 (b) If Gas: Production XX/ Underground Storage /
 Deep / Shallow XX
- 5) Proposed Target Formation(s): Alexander ⁴³⁹
- 6) Proposed Total Depth: 5217 feet
- 7) Approximate fresh water strata depths: 48', 194', 538', 858'
- 8) Approximate salt water depths: 1347' *OK*
- 9) Approximate coal seam depths: 528-531', 567-572'
- 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	11-3/4"	F-25	32.0	40		
Fresh Water	8-5/8"	F-25	20.0	1181'	1181'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2, 2
Intermediate	*					
Production	4-1/2"	J-55	10.5	5132'	5132'	38CSR18-11.1
Tubing						
Liners						

* OPTIONAL: Based upon coal or excessive amounts of water being encountered below the 9-5/8" casing.

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 *Blanket* Agent

17068

37476

1) Date: April 5, 1993
2) Operator's well number
Ashland/Maxwell #46
3) API Well No: 47 - 017 - 4017
State - County - Permit

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name Charles P. Heaster, et al
Address P.O. Box 112
West Union, WV 26456'
(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 N/A
Address
(b) Coal Owner(s) with Declaration
Name N/A
Address
Name
Address
(c) Coal Lessee with Declaration
Name N/A
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. Balotto
Its: Designated Agent
Address P.O. Box 820
Glennville, WV 26351
Telephone (304) 462-5781

Subscribed and sworn before me this 5th day of April, 19 93

Manilyn M. Bean Notary Public

My commission expires February 26, 2002.

