

# ASHLAND / MAXWELL LEASE

Page 4 of 9

## 936.86 ACRES±

### LINE TABLE

- A. S 70-06 E 102.84'
- B. S 87-17 E 200.01'
- C. S 75-49 E 335.9'

NORTH

SECRET c/o WALLACE

WALTERS

N 36-26 E 299.82'  
 N 5-32 E 544.31'  
 N 10-09 E 839.22'  
 N 64-40 W 411.4'  
 N 0-42 W 928.48'

N 64-40 W 411.4'  
 N 0-42 W 928.48'

N 52 W 847'  
 N 87-08 W 322'  
 N 80-18 W 408.5'  
 N 30-28 W 104'  
 N 14-40 W 427'  
 N 88-18 W 878.5'

MARY HARPER HAMBLET HEIRS

HOLLAND

## WELL NO. 45

WEST UNION DISTRICT

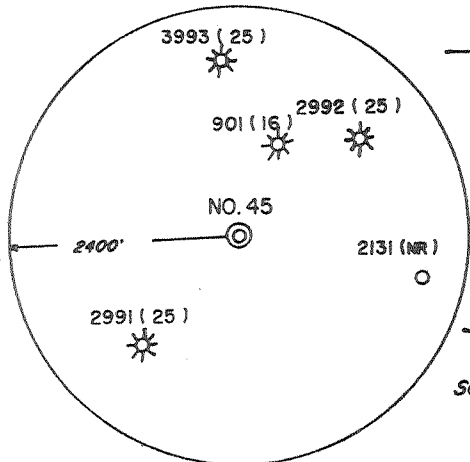
SOUTHWEST DISTRICT

HE HENDERSON

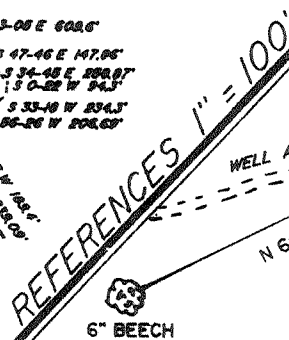
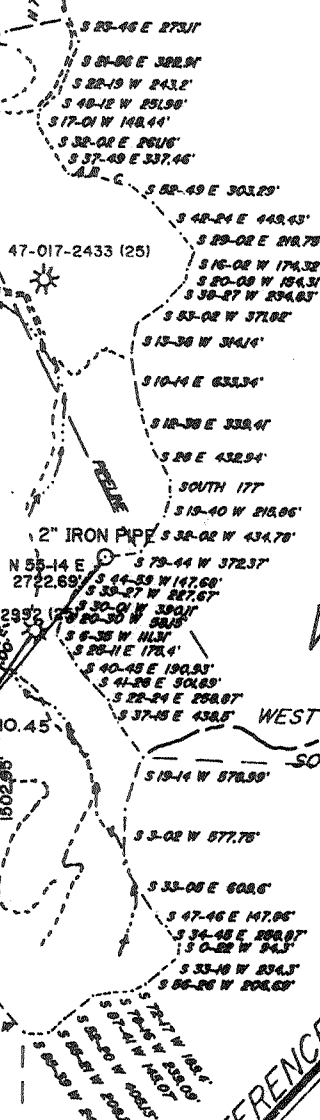
WEST UNION DISTRICT

SOUTHWEST DISTRICT

MAXWELL

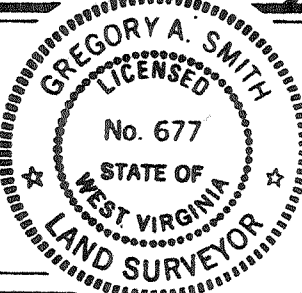


201 1.85



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 MARCH 1, 19 93  
 OPERATORS WELL NO. ASHLAND / MAXWELL  
 WELL NO. 45  
 API WELL NO. 47 - 017 - 4039  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2777 (42-24)  
 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 X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 1183' 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 Halbrook K  
 ROYALTY OWNER LEWIS MAXWELL HEIRS ET. AL. LEASE ACREAGE 936.86 OF 2654  
 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 ALEXANDER ESTIMATED DEPTH 5319'

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

SEP 10 1993

COUNTY NAME PERMIT

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

Well Operator's Report of Well Work

Farm name: HEASTER, CHARLES P. ETAL. Operator Well No.: ASHLD/MAXWL #45

LOCATION: Elevation: 1,183.00 Quadrangle: OXFORD

District: WEST UNION County: DODDRIDGE  
Latitude: 10590 Feet South of 39 Deg. 15Min. Sec.  
Longitude 9780 Feet West of 80 Deg. 45 Min. Sec.

Company: EASTERN AMERICAN ENERGY C  
P.O. BOX 820  
GLENVILLE, WV 26351-0820

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/07/93  
Well work Commenced: 09/13/93  
Well work Completed: 10/08/93  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary xx Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5303'  
Fresh water depths (ft) 131'  
Salt water depths (ft) None

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"	1222.30'	1222.30'	CTS 295 sxs
4-1/2"	----	5211.65'	710 sxs

OPEN FLOW DATA

(Commingled) Riley, Bradford, Balltown 5117.5'  
Producing formation Alexander, Benson, 3rd Riley, Pay zone depth (ft) -3892.5'  
Gas: Initial open flow 1501 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 1299 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 15 Hours  
Static rock Pressure 1350 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: EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager  
Date: December 10, 1993

JAN 1 - 1994

- 4 Stage Frac  
 Stage One Alexander: 19 holes (5050'-5117.5'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 60,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 110,000 scf of N2.  
 Stage Two Benson/3rd Riley: 14 holes (4707'-4788'), 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 109,000 scf of N2.  
 Stage Three Riley/Bradford: 14 holes (4232'-4361.5'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 45,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 92,000 scf of N2.  
 Stage Four Balltown: 16 holes (3892.5'-4108.5'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 45,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 102,000 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
Clay			0	3	
Sand and Shale			3	50	
Shale and Red Rock			50	128	
Sand			128	154	3/4" stream of water @ 131'
Shale and Red Rock			154	248	
Sand and Shale			248	379	
Red Rock			379	421	
Sand & Lime			421	437	
Sand and Shale			437	533	
Red Rock			533	541	
Sand and Shale			541	596	
Red Rock			596	662	
Sand and Shale			662	820	
Red Rock			820	868	
Sand and Shale			868	1175	
Black Shale			1175	1194	
Shale			1194	1210	
Sand			1210	1318	Oil odor @ 1280'
Sand and Shale			1318	1738	
Little Lime			1738	1750	
Sand and Shale			1750	1780	
Big Lime			1780	1840	
Big Injun			1840	1920	
Shale			1920	2072	
Weir			2072	2182	
Shale			2182	2276	
Berea			2276	2284	
Shale			2284	2466	
Gordon			2466	2514	
Sand and Shale			2514	2646	
5th Sand			2646	2658	
Sand and Shale			2658	3134	
Warren			3134	3186	
Shale			3186	3204	
Speechley			3204	3290	

UAR 1 - 1994

(Attach separate sheets as necessary)

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand and Shale			3290	3600	
Upper Balltown			3600	3742	
Shale			3742	3890	
Middle Balltown			3890	3970	2517' - No Show
Shale			3970	4080	2738' - 50/10 thru 2" w/water (298 MCF)
Lower Balltown			4080	4112	3055' - 20/10 thru 2" w/water (189 MCF)
Shale			4112	4220	3402' - 18/10 thru 2" w/water (179 MCF)
Bradford			4220	4242	3814' - 14/10 thru 2" w/water (158 MCF)
Shale			4242	4340	4002' - 14/10 thru 2" w/water (158 MCF)
Riley			4340	4380	4600' - 14/10 thru 2" w/water (158 MCF)
Sand and Shale			4380	4696	4976' - 14/10 thru 2" w/water (158 MCF)
3rd Riley			4696	4724	5198' - 14/10 thru 2" w/water (158 MCF)
Shale			4724	4782	TD - 8/10 thru 2" w/water (119 MCF)
Benson			4782	4790	
Shale			4790	5022	
Alexander			5022	5124	
Shale			5124	5303	
TD				5303	

17652  
JAN 1 - 1994

017-4039  
 Issued 09/07/93  
 Page 3 of 9  
 Expires 09/07/95

FORM WW-2B

JUL 20 1993

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

17652

- 1) Well Operator: Eastern American Energy Corporation <sup>259</sup> 14990 (8) 526
- 2) Operator's Well Number: ASHLAND/MAXWELL #45 3) Elevation: 1183'
- 4) Well type: (a) Oil   / or Gas XX/  
 (b) If Gas: Production XX/ Underground Storage   /  
 Deep   / Shallow XX
- 5) Proposed Target Formation(s): Alexander <sup>439</sup>
- 6) Proposed Total Depth: 5319' feet
- 7) Approximate fresh water strata depths: 427'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 550-551'
- 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	20'		
Fresh Water	8-5/8"	F-25	20.0	1285'	1285'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal						
Intermediate	*					
Production	4-1/2"	J-55	10.5		5234'	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 \_\_\_\_\_

15971  
 14

For Division of Oil and Gas Use Only

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

1) Date: July 19, 1993  
2) Operator's well number  
ASHLAND/MAXWELL #45  
3) API Well No: 47 - 017 - 4039  
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  
(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 9 on the above named parties, by:  
XX 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 820  
Glenville, WV 26351  
Telephone (304) 462-5781

OFFICIAL SEAL NOTARY PUBLIC  
STATE OF WEST VIRGINIA  
M. M. BEAN  
200 WEST MAIN AVE.  
MARTINSBURG, WV 26402  
My Commission Expires: Feb. 26, 2002

Subscribed and sworn before me this 19th day of July, 1993  
*Marilyn M. Bean* Notary Public  
My commission expires February 26, 2002.