

# ASHLAND / MAXWELL LEASE

## 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'

1.30  
1.40

HOLLAND

NOTE: DUE TO DEED ERROR, MONUMENTS SHOWN AND TIED HEREON MAY NOT SCALE.

## WELL NO. 39

WEST UNION DISTRICT  
SOUTHWEST DISTRICT

SCHWARTZMAN

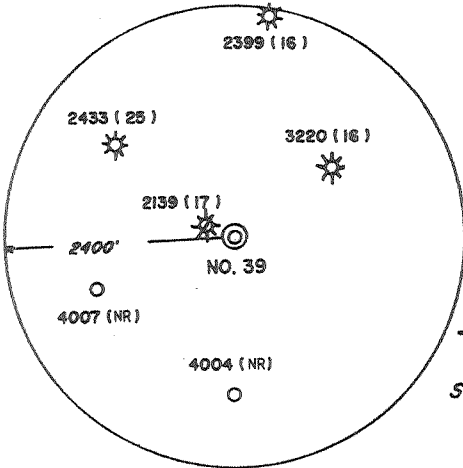
REFERENCES

1" = 200'

NORTH

LONGITUDE 80° 45' 00"

6,870'



1.30  
1.40

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 JULY 28, 19 93  
 OPERATORS WELL NO. ASHLAND / MAXWELL  
 WELL NO. 39  
 API WELL NO. 47 - 017 - 4038  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2777 (44-1)  
 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 1122' 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. WV 02358--  
 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 5247'

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

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 #39

LOCATION: Elevation: 1,122.00 Quadrangle: OXFORD

District: WEST UNION County: DODDRIDGE  
Latitude: 6870 Feet South of 39 Deg. 15Min. Sec.  
Longitude 7400 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: 09/08/93  
Well work Commenced: 10-06-93  
Well work Completed: 10-23-93  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary xx Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5294'  
Fresh water depths (ft) 188'  
Salt water depths (ft) 1315'

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"	1171'	1171'	CTS 280 sxs
4 - 1/2"	----	5205.10'	715 sxs

OPEN FLOW DATA

(COMMINGLED)

Alexander, Benson, Riley, 5115'-  
Producing formation Speechley, Warren Pay zone depth (ft) 3156'  
Gas: Initial open flow 1299 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 1061 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: EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager  
Date: 12-20-93

4 STAGE FRAC

Stage One Alexander: 19 holes (5055.5'-5115'), 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 109,500 scf of N2.

Stage Two Benson: 12 holes (4771'-4777'), 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 104,400 scf of N2.

Stage Three Riley: 14 holes (4329.5'-4357'), fraced w/energized water (150 scf/bbl), 30 lbs gel/1000 gals, 38,000 lbs of 20/40 sand, 500 gals of 15% HCL acid and 87,000 scf of N2.

Stage Four Speechley/Warren: 19 holes (3156'-3272.5'), 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 95,700 scf of N2.

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	
Shale			3	10	
Shale & Red Rock			10	15	
Sand & Sandy Shale			15	60	
Shale & Red Rock			60	80	
Sand & Sandy Shale			80	178	
White Sand			178	190	1/2" stream H2O @ 188'
Shale & Red Rock			190	233	
Sand			233	293	
Red Rock			293	319	
Sandy Shale			319	406	
Sand & Lime			406	418	
Sandy Shale			418	506	
Red Rock			506	521	
Shale & Sand			521	715	
Sandy Shale & Sand			715	975	
Shale			975	1175	
Sand & Sandy Shale			1175	1620	1315' Hole Damp
Shale & Lime			1620	1776	1335' Soap Hole
Big Lime			1776	1858	
Big Injun			1858	1910	
Shale			1910	2063	
Weir			2063	2165	
Shale			2165	2263	Gas Checks:
					1633' - No Show
Berea			2263	2276	1792' - No Show
Shale			2276	2490	2013' - No Show
Gordon			2490	2506	2204' - No Show
Shale & Siltstone			2506	3126	2424' - No Show
					2771' - No Show
Warren			3126	3175	3055' - 2/10 thru 1" w/H2O
Shale			3175	3194	3215' - 2/10 thru 1" w/H2O
Speechley			3194	3278	3405' - 2/10 thru 1" w/H2O
Shale & Siltstone			3278	4324	3816' - 2/10 thru 1" w/H2O
					4224' - 2/10 thru 1" w/H2O
Riley			4324	4365	4520' - 2/10 thru 1" w/H2O
Shale & Siltstone			4365	4768	4632' - 2/10 thru 1" w/H2O
Benson			4768	4782	4915' - 2/10 thru 1" w/H2O
Shale			4782	5020	TD - 2/10 thru 1" w/H2O
					DC - 2/10 thru 1" w/H2O
Alexander			5020	5118	
Shale			5118	5294	
Total Depth:				5294	

17846

017-4038  
Issued 09/08/93  
Page 3 of 8  
Expires 09/08/95

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

17846

Well Operator: Eastern American Energy Corporation <sup>254</sup> 14980 (8) 526

Operator's Well Number: ASHLAND/MAXWELL #39 3) Elevation: 1122'

Well type: (a) Oil  / or Gas  /

(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /

5) Proposed Target Formation(s): Alexander <sup>439</sup>

6) Proposed Total Depth: 5247 feet

7) Approximate fresh water strata depths: 198'

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
Conductor	11-3/4"	F-25	32.0	20'		
Fresh Water	8-5/8"	F-25	20.0	1122'	1122'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate	*					
Production	4-1/2"	J-55	10.5		5162'	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 Surety  Agent

45985/16

(Type)

(8)

RECEIVED  
Environmental Protection  
AUG 23 93  
Permitting  
Office of Oil & Gas

1) Date: August 18, 1993  
2) Operator's well number  
ASHLAND/MAXWELL #39  
3) API Well No: 47 - 017 - 4038  
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. Galbreath  
Its: Designated Agent  
Address P.O. Box 820  
Glenville, WV 26351  
Telephone 304/462-5781

Subscribed and sworn before me this 18th day of August, 1993

Maury M. Sea Notary Public  
My commission expires February 26, 2002.

