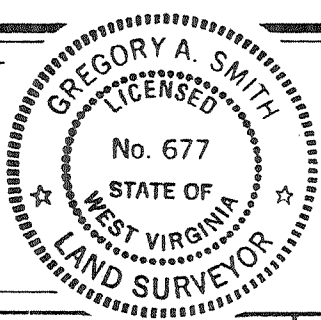


I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

L.L.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE SEPTEMBER 12, 19 91

OPERATORS WELL NO. BROUN NO. 1


API WELL NO. 47 - 005 - 1542

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2623 (36 - 25,51)

PROVEN SOURCE OF ELEVATION BENCH MARK ELEVATION 747' 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 1549' WATERSHED BIG COAL RIVER DISTRICT SHERMAN 4 COUNTY BOONE QUADRANGLE SYLVESTER 7.5'

SURFACE OWNER E. FONTAINE BROUN ET. AL. ACREAGE 1999.86

ROYALTY OWNER E. FONTAINE BROUN ET. AL. LEASE ACREAGE 2000

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 _____ ESTIMATED DEPTH SEP 23 1991

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

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

Environmental

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

APR 1 9 92

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: BROUN, E. FONTAINE ETAL. Operator Well No.: UNOCAL/BROUN/1

LOCATION: Elevation: 1549.00 Quadrangle: SYLVESTER

District: SHERMAN County: BOONE
Latitude: 8400 Feet South of 38 Des. 7 Min. 30 Sec.
Longitude: 6050 Feet West of 81 Des. 35 Min. 0 Sec.

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

Asent: DONALD C. SUPCOE

Inspector: RICHARD CAMPBELL
Permit Issued: 09/20/91
Well work Commenced: 11/02/91
Well work Completed: 01/23/92

Verbal Plussins
Permission granted on:
Rotary Cable Ris
Total Depth (feet) 5800'
Fresh water depths (ft) None

Salt water depths (ft) 1515', 1690'

Is coal beins mined in area (Y/N)? N
Coal Depths (ft): 305'-308', 404'-406',
750'-753', 844'-846', 1000'-1003', 1020-1021'

Size	Used in	Left	Cement
	Tubing	Drilling	Fill Up
	in Well		Cu. Ft.
13-3/8"	94'	94'	---
9-5/8"	1094.50'	1094.50'	375 sxs CTS
7"	2393.55'	2393.55'	175 sxs
4-1/2"	---	5253.55'	255 sxs
2-3/8"	---	5008.65'	---

OPEN FLOW DATA

Java, Basal Lower Huron, 5138'-
Berea, Big Injun, Big Lime Pay zone depth (ft) 2561'
Gas: Initial open flow 119 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 103 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 55 Psis (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 Psis (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.

Ronald L. Rech

For: EASTERN AMERICAN ENERGY CORP.

Reviewed TML
Recorded _____

By: Ronald L. Rech, Regional Drilling Manager
Date: April 13, 1992

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill			0	70	
Shale			70	100	
Sand			100	135	Water @ 1515'
Shale			135	140	Water @ 1690'
Sand			140	220	
Shale			220	225	
Sand			225	305	Gas Checks:
Coal			305	308	1574' - no show
Sand and Shale			308	404	1998' - no show
Coal			404	406	2209' - no show
Sand and Shale			406	750	2523' - no show
Coal			750	753	2707' - no show
Sand and Shale			753	844	2891' - no show
Coal			844	846	2984' - no show
Sand and Shale			846	865	3078' - no show
Coal			865	867	3167' - no show
Sand and Shale			867	1000	3319' - no show
Coal			1000	1003	3401' - no show
Sand and Shale			1003	1020	3706' - no show
Coal			1020	1021	4011' - no show
Sand and Shale			1021	1417	4313' - no show
Sand			1417	1540	4616' - no show
Shale			1540	1595	4926' - no show
Sand			1595	1615	5198' - no show
Shale			1615	1670	
Sand			1670	1795	
Shale			1795	1810	
Sand			1810	1935	
Shale			1935	1950	
Sand			1950	1960	
Sand			1960	1965	
Shale			1965	2010	
Sand			2010	2020	
Sand			2020	2030	
Sand			2030	2185	
Redrock and Shale			2185	2285	
Sand			2285	2370	
Little Lime			2370	2415	
Shale			2415	2440	
Big Lime			2440	2683	
Shale			2683	2925	
Weir			2925	2954	
Shale			2954	3105	
Berea			3105	3138	
Shale			3138	3340	
Gordon			3340	3375	
Shale			3375	4285	
Huron			4285	4980	
Java			4980	5140	
Angola			5140	5360	
Rhinestreet			5360	5778	
Lime			5778	5800	

12245

(REVERSE)

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

UNOCAL/T.L. BROWN #1, 47-005-1542

Java/Basal Lower Huron: 40 holes (5138'-4343.5') fraced w/75 quality foam, 20 lbs gel/1000 gals, 96,000 lbs of 20/40 sand, 1000 gals of 15 % HCl acid and 980,240 scf of N₂

Berea: 16 holes (3150.5'-3122.5') fraced w/ energized water, 35 lbs gel/1000 gals, 45,000 lbs of 20/40 sand, 500 gals of 15% HCl acid and 95,050 scf of N₂

Big Injun/Big Lime: 18 holes (2676.5'-2561') fraced w/energized water, 35 lbs gel/1000 gals, 47,000 lbs of 20/40 sand, 1000 gals 15% HCl acid and 86,500 scf of N₂

A-R' 1273-10216 TD ONCUBALL

C-C' 2796

TD-RS ↑

4100 - w top Onon deep well map
1549

4699 - w top Onon

APR 21 1992

005-1542
 Issued 09/20/91
 Page 3 of 8
 Expires 09/20/93

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

- 1) Well Operator: ²⁵⁹ Eastern American Energy Corporation 14980 (4) 629
- 2) Operator's Well Number: Unocal/Broun #1 WVBO0000401 3) Elevation: 1420'
- 4) Well type: (a) Oil ___ / or Gas XX /
 (b) If Gas: Production XX / Underground Storage ___ /
 Deep ___ / Shallow XX /
- 5) Proposed Target Formation(s): Devonian Shale
- 6) Proposed Total Depth: 5783' feet
- 7) Approximate fresh water strata depths: 50', 473', 855'
- 8) Approximate salt water depths: 1297', 1753'
- 9) Approximate coal seam depths: 121'-126', 571'-574', 708'-711', 883'-885'
- 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	
Conductor	13-3/8"	F-25	37.0	40'	-----	
Fresh Water						C.T.S. 38CSR18-11.3
Coal	9-5/8"	F-25	26.0	935'	935'	38CSR18-11.2.2
Intermediate	* 7 "	H-40	17.0	2250'	2250'	C.T. 9-5/8"
Production	4-1/2"	J-55	10.5	5698'	5698'	38CSR18-11.1
Tubing						
Liners						

* OPTIONAL: Based upon coal or 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 Blanket Agent
 (Type)

12248

18389
 B

MAY 13 91

May 2, 1991

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

1) Date: ~~XXXXXXXXXXXXXXXXXXXXXXXXXXXX~~
2) Operator's well number
Unocal/Broun #1 WVBO0000401
3) API Well No: 47 - 005 - 1542
State - County - Permit

RECEIVED
Division of Energy
MAY 13 91
Oil and Gas Division

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 _____
Address _____
(SEE ATTACHED PAGE 1A)
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name (SEE ATTACHED PAGE 1A)
Address _____
Name _____
Address _____

6) Inspector Richard S. Campbell
Address Box 163
Hamlin, WV 25523
Telephone (304)- 824-7138

(c) Coal Lessee with Declaration
Name Bedcor Coal Company
Address c/o Wescar, Inc.
13905 McCorkle Avenue
Chesapeake, WV 25315

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 XXX 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)
XXX 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 2nd day of May, 19 91
Edna Marie Huff Notary Public
My commission expires August 2, 1993

005-1542

Unocal/Broun #1
WVBO0000401

RECEIVED
Division of Energy
MAY 13 91

SURFACE OWNERS AND COAL OWNERS TO BE SERVED:

One Valley Bank, N.A., Trustee
of the Thomas B. Jackson Trust
ATTN: JOSEPH FREEDMAN
TRUST AND ESTATE ADMINISTRATION
P.O. Box 1793
Charleston, WV 25326

Mr. Robert W. Lawson, III
1307 Charleston National Plaza
Charleston, WV 25301

Agent for T.L. Broun Heirs: Virginia Peyton Broun Lawson
Thomas Broun Powers
Philip Whittemore Powers
Anne Record Powers Ervin
Thomas B. Powers, III
Steven Powers
E. Fontaine Broun Revocable Trust