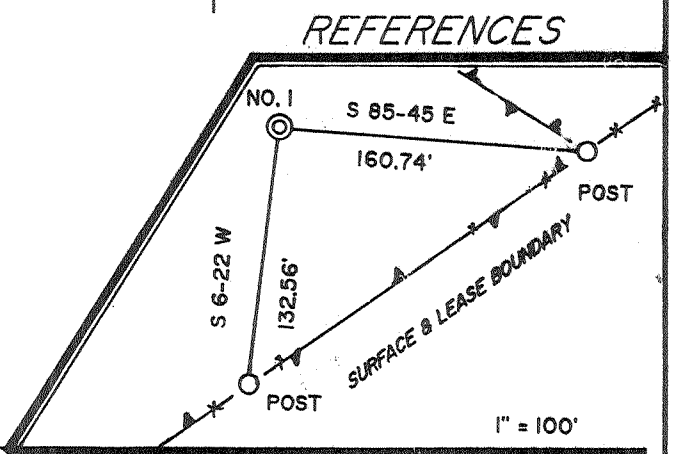
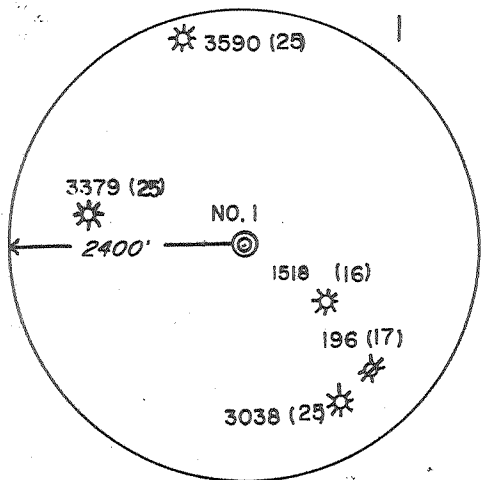
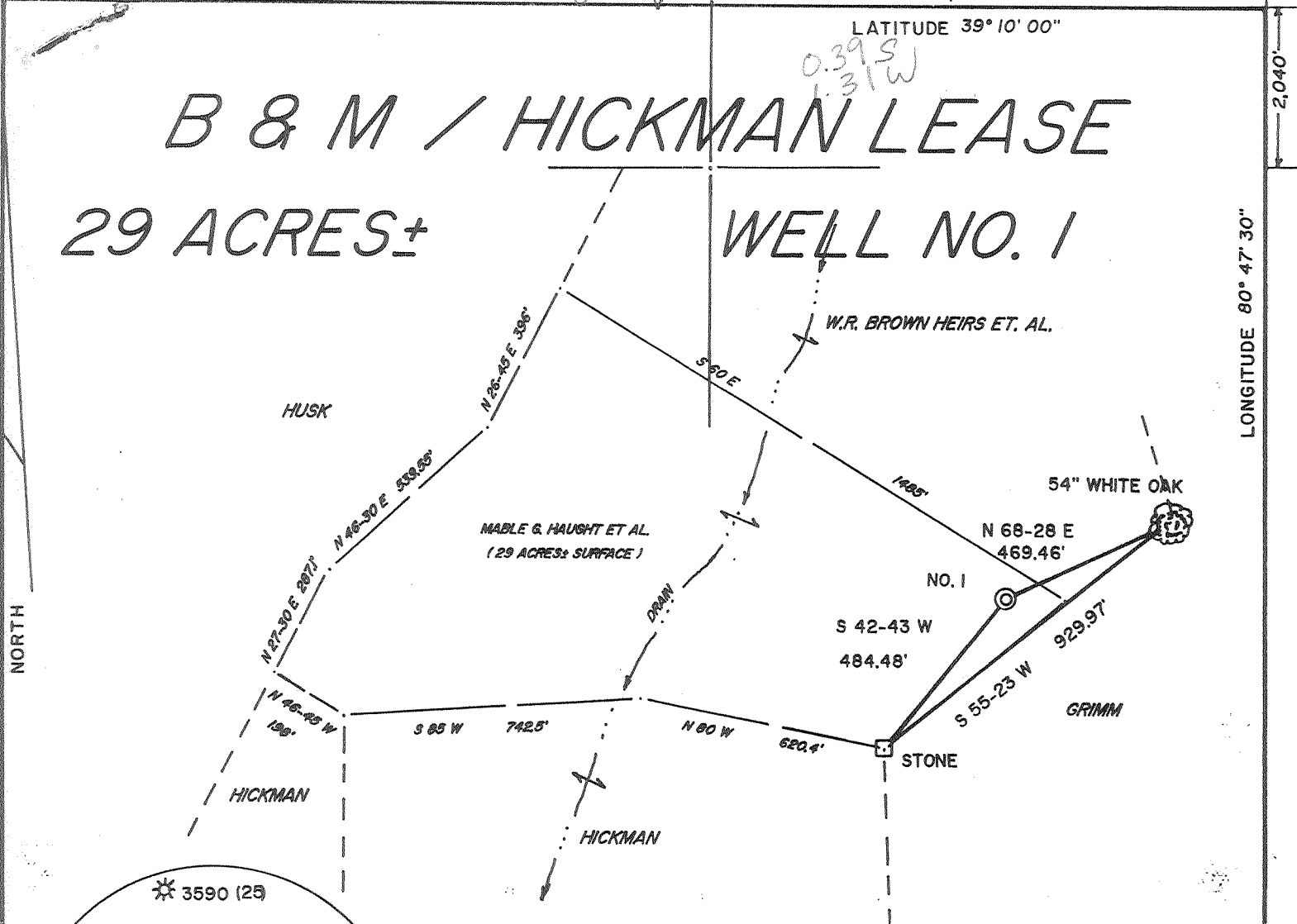


# B & M / HICKMAN LEASE

## 29 ACRES±

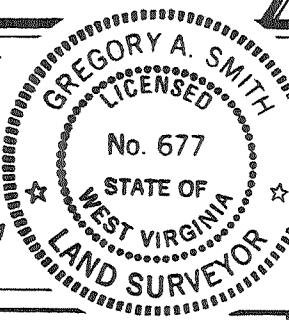
## WELL NO. 1



0.39 S  
3.54 W

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 AUGUST 8, 19 91  
 OPERATORS WELL NO. B&M/HICKMAN NO. 1  
 API WELL NO. 47 - 017 - 3906  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2712 (38-28)  
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEVATION = 1134' SCALE 1" = 400'

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 1098' WATERSHED MIDDLE FORK OF SOUTH FORK HUGHES RIVER  
 DISTRICT SOUTHWEST COUNTY DODDRIDGE QUADRANGLE OXFORD 7.5'

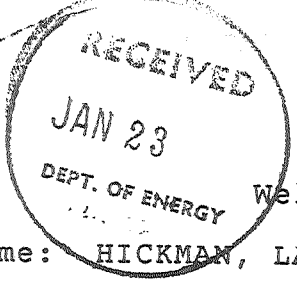
SURFACE OWNER MABLE G. HAUGHT ET AL. ACREAGE 29  
 ROYALTY OWNER LAURA HICKMAN ET AL. LEASE ACREAGE 29

PROPOSED WORK: LEASE NO. WVO2201-A  
 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 5229'

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

6-1. Straight Fork-Bluestone Creek (133)

COUNTY NAME PERMIT



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

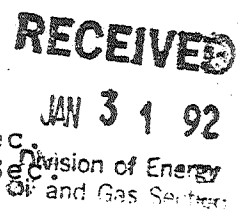
Reviewed TMG  
Recorded \_\_\_\_\_

Well Operator's Report of Well Work

Farm name: HICKMAN, LAURA E. Operator Well No.: B&M/HICKMAN #1

LOCATION: Elevation: 1098.00 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE  
Latitude: 2040 Feet South of 39 Deg. 10 Min. 0 Sec.  
Longitude 6950 Feet West of 80 Deg. 47 Min. 30 Sec.



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

Agent: DONALD C. SUPCOE

Inspector: MIKE UNDERWOOD  
Permit Issued: 09/04/91  
Well work Commenced: 10/02/91  
Well work Completed: 10/07/91  
Verbal Plugging \_\_\_\_\_  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig \_\_\_\_\_  
Total Depth (feet) 5255  
Fresh water depths (ft) 390'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8	1303	1303	CTS
4-1/2		5127	314

Salt water depths (ft) N/A

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): N/A

OPEN FLOW DATA

Alexander, Benson, 5043 -  
3rd Riley, Riley Pay zone depth (ft) 4313  
Producing formation \_\_\_\_\_  
Gas: Initial open flow 852 MCF/d Oil: Initial open flow N/A Bbl/c  
Final open flow 671 MCF/d Final open flow N/A Bbl/c  
Time of open flow between initial and final tests 11 Hours  
Static rock Pressure 1400 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/c  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/c  
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: *Donald C. Supcoe*  
EASTERN AMERICAN ENERGY CORP.

By: Ronald L. Rech, Regional Drilling Manager  
Date: January 17, 1992

017 3906

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

Alexander: (20 holes from 5043 to 4988) fraced w/70 quality foam, 30 lbs gel/1000 gals, 45,000 lbs 16/30 sand, 500 gals of 15% HCl acid

Benson/3rd Riley: (18 holes form 4732 to 4648.5) fraced w/70 quality foam, 30 lbs gel/1000 gals, 40,000 lbs 20/40 sand, 500 gals of 15% HCl acid

Riley: (18 holes from 4337 to 4313) fraced w/70 quality foam, 30 lbs gel/1000 gals, 26,000 lbs 20/40 sand, 500 gals of 15% HCl acid

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	3	
Redrock & Shale			3	7	water 1/2" stream 390'
Sand			7	15	
Redrock & Shale			15	20	<u>Gas Checks:</u>
Sand & Shale			20	40	1797 8/10 - 1" w/w
Redrock & Shale			40	100	1920 28/10 - 1" w/w
Sand & Shale			100	150	2105 16/10 - 1" w/w
Redrock & Sand			150	227	2628 12/10 - 1" w/w
Redrock & Shale			227	260	3090 12/10 - 1" w/w
Redrock			260	268	3367 6/10 - 1" w/w
Sand & Shale			268	338	3801 8/10 - 1" w/w
Redrock			338	359	4266 13/10 - 1" w/w
Sand & Shale			359	440	4514 14/10 - 1" w/w
Lime & Sand			440	449	4761 8/10 - 1" w/w
Redrock			449	465	4915 16/10 - 1" w/w
Sand & Shale			465	540	5164 16/10 - 1" w/w
Redrock & Shale			540	664	5229 11/10 - 1" w/w
Redrock & Shale			664	728	
Sand & Shale			728	741	
Sand & Shale			741	789	
Redrock & Shale			789	814	
Sand & Shale			814	913	
Sand			913	945	
Sand & Shale			945	1004	
Sand			1004	1025	
Sand & Shale			1025	1090	
Redrock & Shale			1090	1107	
Sand & Shale			1107	1584	
Sand			1584	1760	
Little Lime			1760	1771	
Shale & Sand			1771	1802	
Big Lime			1802	1860	
Sand & Shale			1860	1878	
Injun Sand			1878	1928	
Shale & Sand			1928	2070	
Sand			2070	2103	
Sand			2103	2203	
Sand & Shale			2203	2571	

Cont...

(Attach separate sheets as necessary)

FEB 7 1962

RECEIVED

JAN 31 92

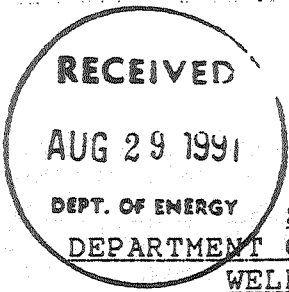
Division of Energy  
Oil and Gas Section

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand			2571	2770	
Sand & Shale			2770	3154	
Sand			3154	3196	
Sand & Shale			3196	4330	
Riley			4330	4350	
Sand & Shale			4350	4646	
3rd Riley			4646	4686	
Sand & Shale			4686	4740	
435 Benson			4740	4750	
Shale & Sand			4750	4983	
439 Sand ALEXANDER			4983	5093	
Sand & Shale			5093	5229	
				TD	
				5255	

12898

(Attach separate sheets as necessary)



017-3906  
Issued 9/4/91  
Expires 9/4/93

FORM WW-2B

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

- 1) Well Operator: Eastern American Energy Corporation <sup>259</sup> 14990 (7) 525
- 2) Operator's Well Number: B&M/Hickman #1 - WVDOD003101 3) Elevation: 1098'
- 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: 5229 feet
- 7) Approximate fresh water strata depths: 202', 289', 1221'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: None
- 10) Does land contain coal seams tributary to active mine? Yes   / No XX/
- 11) Proposed Well Work: Drill and complete new well.
- 12)

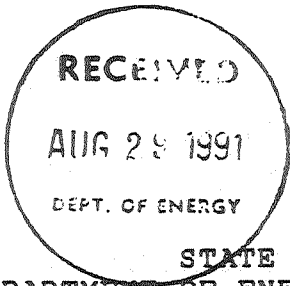
CASING AND TUBING PROGRAM

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	1,275'	1,275'	C.T.S. 38CSR18-11.3 38CSR18-11.2.2
Coal						
Intermediate						
Production	4-1/2"	J-55	10.5	5,144'	5,144'	38CSR18-11.1
Tubing						
Liners						

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

22138  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Surety Bank  Agent



1) Date: August 27, 1991  
2) Operator's well number  
B&M/Hickman #1 WVDODO03101  
3) API Well No: 47 - 017 - 3906  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- |   |  |
|---|--|
| <p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>Lura E. Hickman</u><br/>Address <u>Rt. 1, Box 166</u><br/><u>West Union, WV 26456</u></p> <p>(b) Name _____<br/>Address _____</p> <p>(c) Name _____<br/>Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u><br/>Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name <u>None</u><br/>Address _____</p> <p>Name _____<br/>Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name <u>None</u><br/>Address _____</p> |
| <p>6) Inspector <u>Mike Underwood</u><br/>Address <u>Rt. 2, Box 135</u><br/><u>Salem, WV 26426</u><br/>Telephone (304) - <u>782-1043</u></p>  |  |

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 27<sup>th</sup> day of August, 1991

John M. Paletti Notary Public  
 My commission expires July 2, 1996