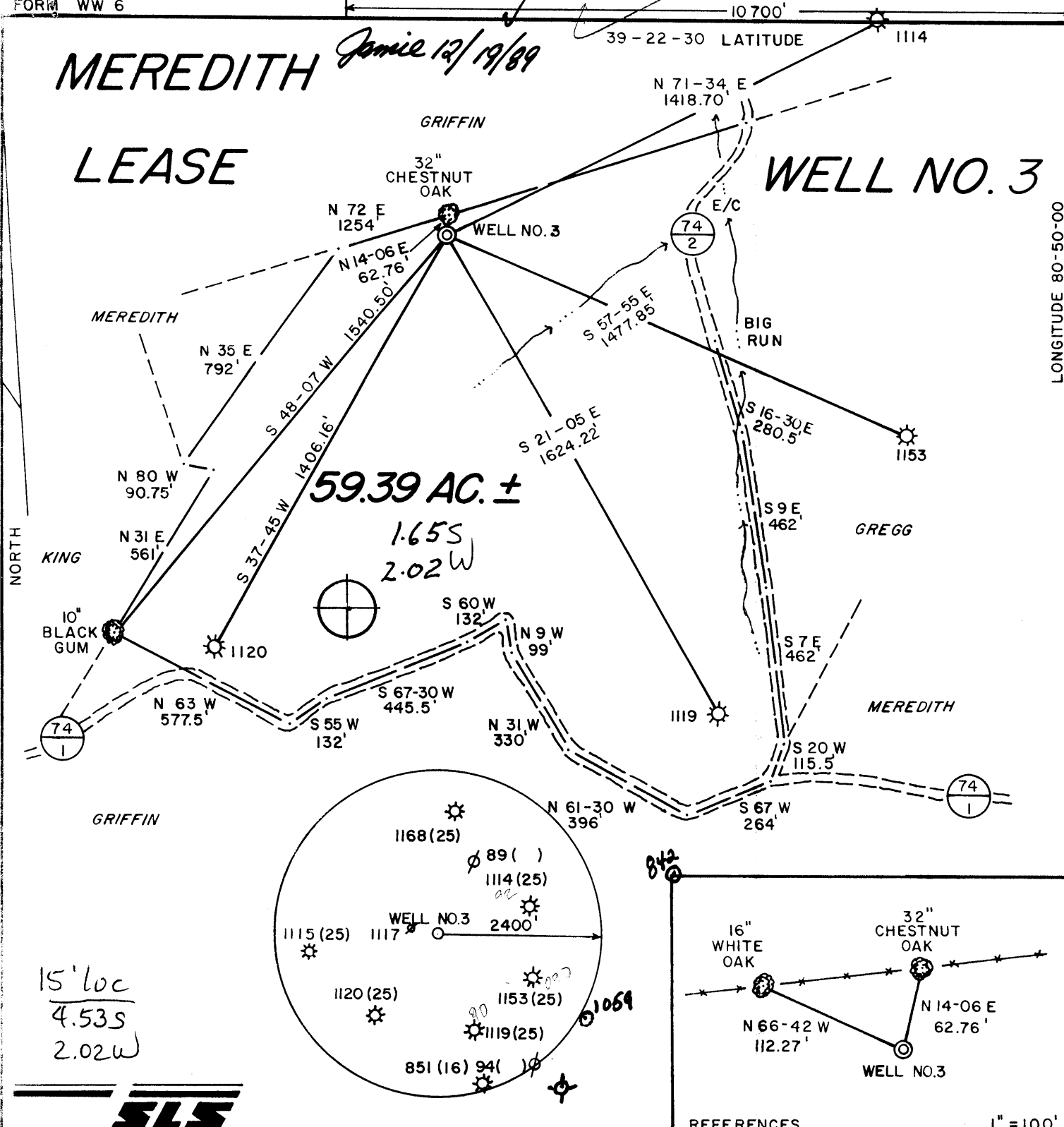


MEREDITH

Janice 12/19/89

LEASE

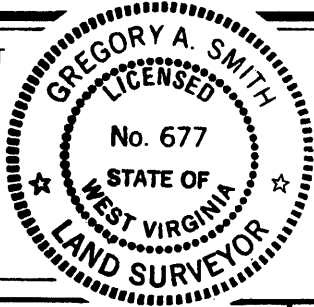
WELL NO. 3



NORTH

LONGITUDE 87° 30' 00"

15' loc
4.53S
2.02W




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 NOVEMBER 28, 19 89
 OPERATORS WELL NO. MEREDITH NO. 3
 WVTYL001303
 API WELL NO. 47 - 095 - 1365
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1327 (24-7)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1199' 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

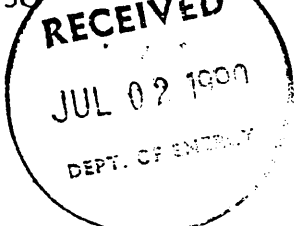
LOCATION: ELEVATION 1105' WATERSHED BIG RUN 415' C
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5'

SURFACE OWNER ROY A. MEREDITH ACREAGE 59.39
 ROYALTY OWNER ROY A. MEREDITH, et. al. LEASE ACREAGE 59.39

PROPOSED WORK: LEASE NO. WV01948-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 5390'

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



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

Well Operator's Report of Well Work

Farm name: MEREDITH, ROY A. Operator Well No.: R. MEREDITH #3

LOCATION: Elevation: 1105.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 8730 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 10700 Feet West of 80 Deg. 50 Min. 0 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: GLEN P. ROBINSON
Permit Issued: 12/29/89
Well work Commenced: 03/29/90
Well work Completed: 04/02/90
Verbal Plugging
Permission granted on:
Rotary X Cable Rig
Total Depth (feet) 5610'
Fresh water depths (ft) 60', 670'

Salt water depths (ft) 1114', 1550'

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.
11-3/4"	151.00'	151.00'	C.T.S.
8-5/8"	1268.00'	1268.00'	C.T.S.
4-1/2"	5072.70'	5072.70'	703

OPEN FLOW DATA

(Commingled)

Producing formation Benson, Riley, Keener Pay zone depth (ft) 4990.5'-2030'
Gas: Initial open flow 750 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 731 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 950 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: Rich Heffelfinger
EASTERN AMERICAN ENERGY CORP.
Rich Heffelfinger
By: Vice President - Regional Operations
Date: June 26, 1990

JUL 6 1990

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

2-STAGE FOAM FRAC

Stage 1: Benson - 8 holes (4990.5'-4988.5') Breakdown 2630 psi, 65 Quality foam, 5,000 lbs 80/100 sand, 40,000 lbs 20/40 sand, 30 lbs/1000 gals Gel, 500 gals 15% HCL acid, 804,000 scf of N₂

Stage 2: Riley - 13 holes (4617'-4587') Breakdown 1890 psi, 65 Quality foam, 30 lbs/1000 gals Gel, 5000 lbs 80/100 sand, 30,000 lbs 20/40 sand, 500 gals 15% HCL, 677,700 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
Soil			0	5	Hole damp @ 60'
Sand and Sandy Shale			5	70	1/2" water @ 670'
Red Rock			70	90	1" water @ 1114'
Shale			90	120	1-1/2" water @ 1550' Soap Hole
Sandy Shale			120	195	
Sand			195	220	
Red Rock and Shale			220	240	<u>GAS CHECKS:</u>
Sand			240	350	1948' - No show
Sand and Sandy Shale			350	1920	2008' - No show
Little Lime			1920	1934	2161' - 8/10 thru 7" w/water
Sand and Shale			1934	1960	2405' - 8/10 thru 7" w/water
Big Lime			1960	2020	2928' - 8/10 thru 7" w/water
Sand and Shale			2020	2146	3297' - 8/10 thru 7" w/water
Shale w/Trace Sand			2146	2316	3511' - 8/10 thru 7" w/water
Weir			2316	2428	4004' - 8/10 thru 7" w/water
Shale			2428	2502	4437' - 8/10 thru 7" w/water
Berea			2502	2508	4591' - 8/10 thru 7" w/water
Shale w/Trace Sand			2508	3412	4933' - 8/10 thru 7" w/water
Warren			3412	3477	5025' - 10/10 thru 7" w/water
Shale w/Some Sand			3477	4580	5149' - 10/10 thru 7" w/water
Riley			4580	4618	5303' - 8/10 thru 7" w/water
Shale w/Trace Sand			4618	4982	1 Tub Down - 8/10 thru 7" w/water
Benson			4982	5018	D.C. - 6/10 thru 7" w/water
Shale			5018	5233	
Alexander			5233	5311	
Shale			5311	5610 T.D.	

9977

(Attach separate sheets as necessary)

095 1365

Issued 12/29/89

Expires 12/29/91

FORM WW-2B

Page 3 of 8

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

- 1) Well Operator: Eastern American Energy Corporation 14980 (1) 670
- 2) Operator's Well Number: R. Meredith #3 - WVTYL001303 3) Elevation: 1105'
- 4) Well type: (a) Oil / or Gas /
(b) If Gas: Production / Underground Storage /
Deep / Shallow /
- 5) Proposed Target Formation(s): Alexander
- 6) Proposed Total Depth: 5390 feet
- 7) Approximate fresh water strata depths: 265', 598', 720', 535'
- 8) Approximate salt water depths: None
- 9) Approximate coal seam depths: 278'
- 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	Fill-up (cu. ft.)
Conductor	11"	F-25	37.5	120'	120'	
Fresh Water	8 5/8"	J-55	20.0	1255'	1255'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	5300'	5300'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

RECEIVED
DEC 11 1989

PACKERS : Kind _____
Sizes _____
Depths set _____

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Fee(s) paid; Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket sure Agent

4477

5511
33

RECEIVED
DEC 11 1989

1) Date: December 6, 1989
2) Operator's well number
R. Meredith #3 - WVTYL001303
3) API Well No: 47 - 095 - 1365
State - County - Permit

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY
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>Roy A. Meredith</u>
Address <u>Rt. 1, Box 233</u>
<u>Washington, WV 26181</u></p> <p>(b) Name _____
Address _____</p> <p>(c) Name _____
Address _____</p> | <p>5) (a) Coal Operator:</p> <p>Name <u>None</u>
Address _____</p> <p>(b) Coal Owner(s) with Declaration
Name _____
Address _____</p> <p>(c) Coal Lessee with Declaration
Name _____
Address _____</p> |
| <p>6) Inspector <u>Glen P. Robinson</u>
Address <u>Rt. 1, #6 Mt. Pleasant Est.</u>
<u>Mineralwells, WV 26150</u>
Telephone (304)-<u>489-9162</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 6th day of December, 1989

My commission expires July 2, 1996 *John D. ...* Notary Public