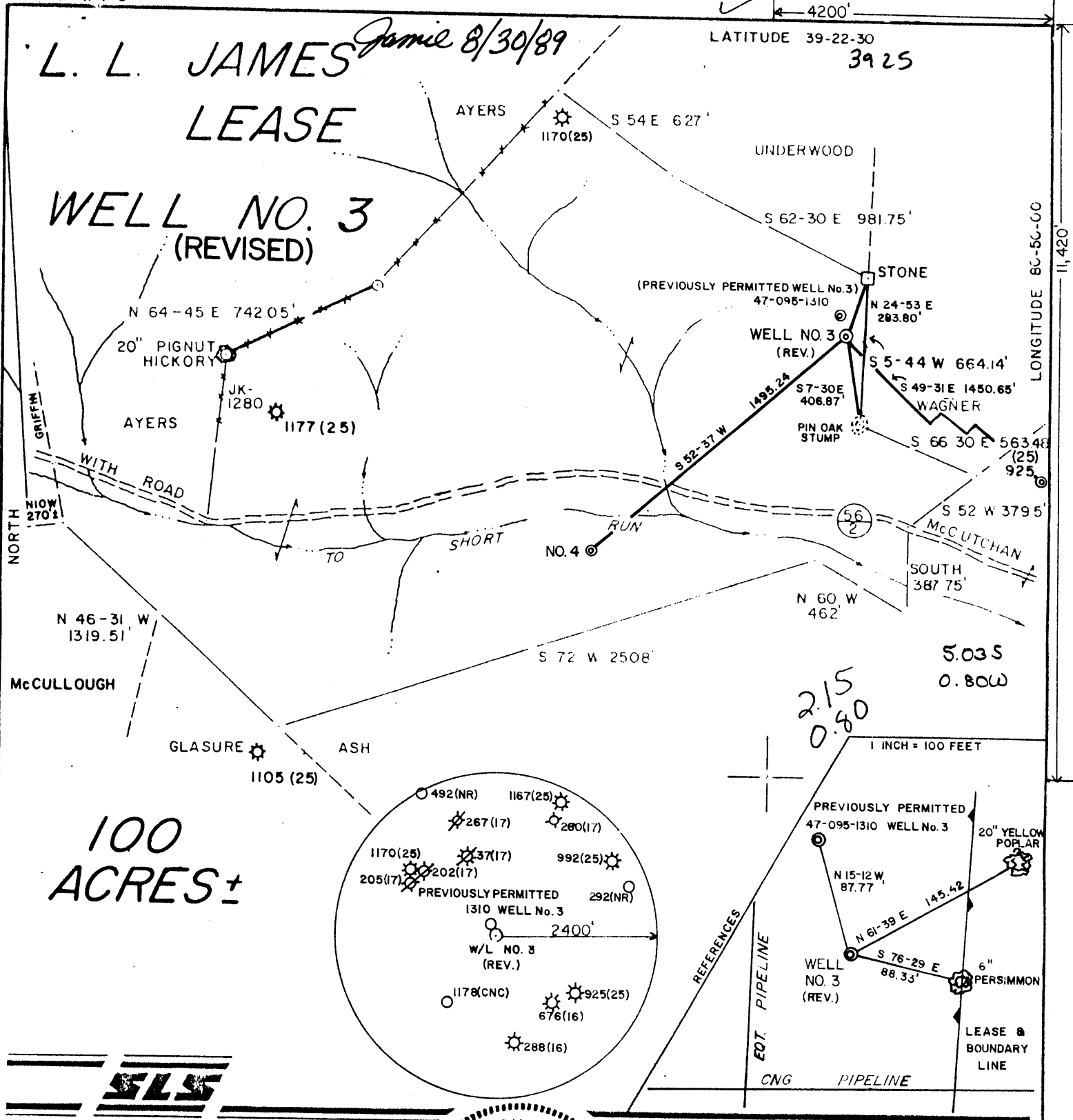


L. L. JAMES *Jamie 8/30/89* LEASE

LATITUDE 39-22-30
39 25

WELL NO. 3 (REVISED)

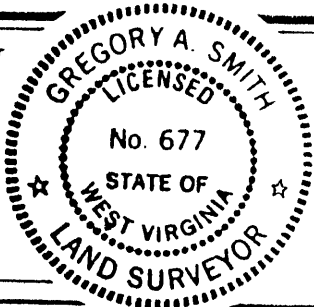


100
ACRES ±



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 9, 19 89
 OPERATORS WELL NO. JAMES NO. 3 (REVISED)
WVTYLO00703
 API WELL NO. 47 - 095 - 1310
 STATE WEST VIRGINIA COUNTY TYLER PERMIT REVISED

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1488 (28-7)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1142' SCALE 1" = 600'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



WELL TYPE: OIL ___ GAS X LIQUID WASTE IF
 INJECTION ___ DISPOSAL ___ "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION: ELEVATION 1051' WATERSHED SHORT RUN DISTRICT CENTERVILLE COUNTY TYLER QUADRANGLE WEST UNION 7.5'

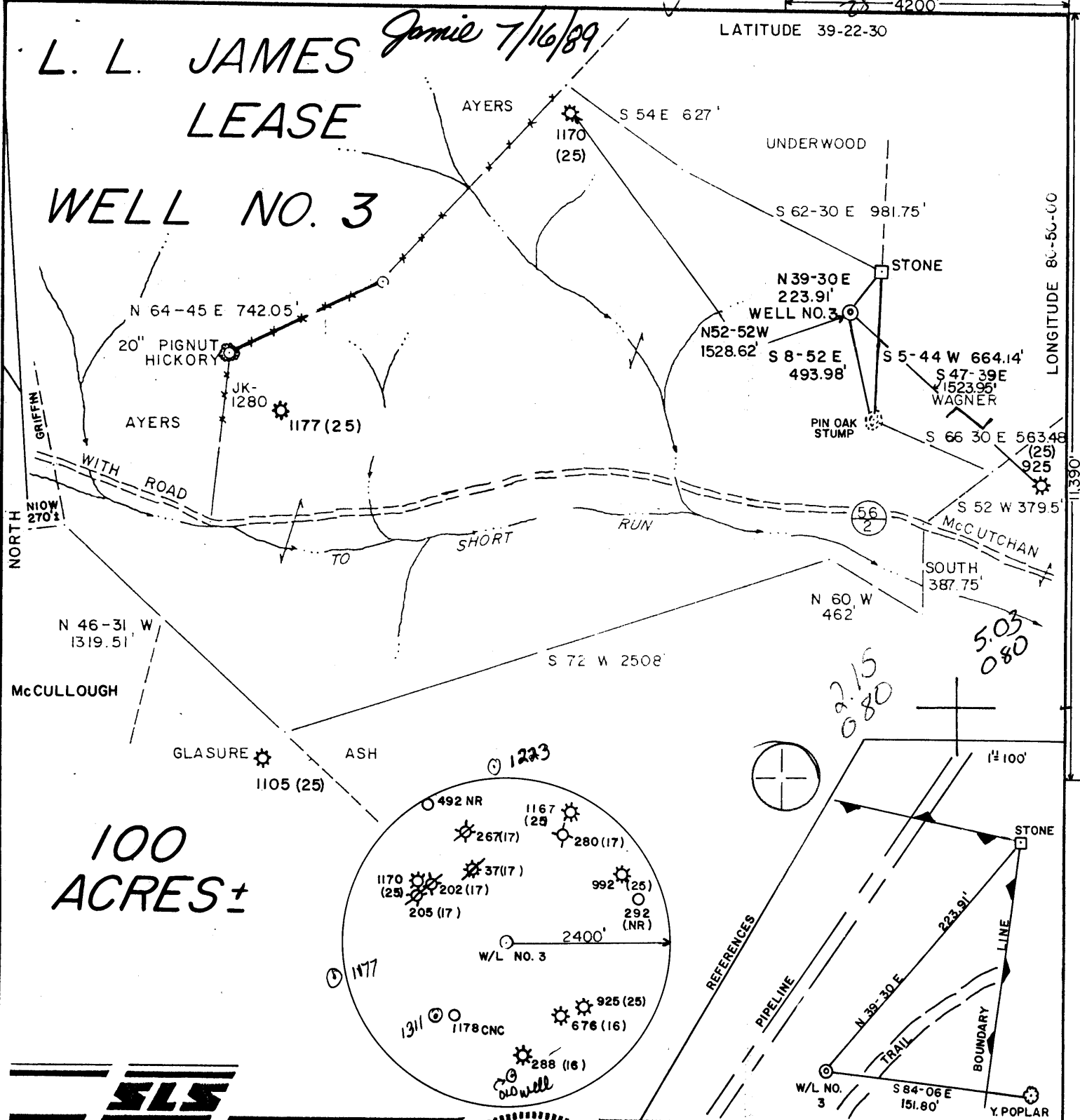
SURFACE OWNER LAWRENCE L. AND THELMA E. JAMES ACREAGE 100
 ROYALTY OWNER S. M. DOAK HEIRS ET. AL. LEASE ACREAGE 100

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 5386'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M PALETTI SEP 1 1989
 ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56TH ST CHARLESTON, WV 25304

L. L. JAMES *Janie 7/16/89* LEASE

WELL NO. 3

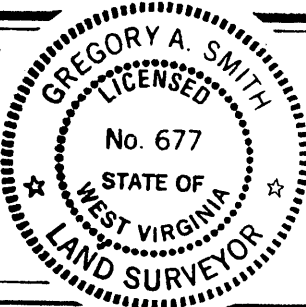


100 ACRES ±



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 MAY 5, 19 89
 OPERATORS WELL NO. JAMES NO. 3
 WVTYL000703
 API WELL NO. 47 - 095 - 1310
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1488 (28-6)
 PROVEN SOURCE OF ELEVATION TOP OF KNOB ELEV. 1142' SCALE 1" = 600'

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 1,065' WATERSHED SHORT RUN
 DISTRICT CENTERVILLE 1 COUNTY TYLER QUADRANGLE WEST UNION 7.5' 671
 SURFACE OWNER LAWRENCE L. AND THELMA E. JAMES ACREAGE 100 133
 ROYALTY OWNER S. M. DOAK HEIRS ET. AL. LEASE ACREAGE 100 3
 PROPOSED WORK: LEASE NO. WVO1924-*01
 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 5400'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI JUL 21 1985
 ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56TH ST. CHARLESTON, WV 25304

259

COUNTY NAME PERMIT

WR-35

RECEIVED
SEP 19 198917-Jul-89
API # 47- 95-01310State of West Virginia
DEPARTMENT OF ENERGY
Division of Oil and GasDIVISION OF OIL & GAS
DEPT. OF ENERGY

Well Operator's Report of Well Work

Farm name: JAMES, LAWRENCE L. Operator Well No.: L.L. JAMES #3

LOCATION: Elevation: 1065.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER
Latitude: 11390 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 4200 Feet West of 80 Deg. 50 Min. 0 Sec.Company: EASTERN AMERICAN ENERGY C
501 56TH ST.
CHARLESTON, WV 25304-0000

Agent: DONALD C. SUPCOE

Inspector: GLEN P. ROBINSON
Permit Issued: 07/17/89
Well work Commenced: 08/22/89
Well work Completed: 09/08/89
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5490'
Fresh water depths (ft) 60', 513', 535'
Salt water depths (ft) 1476'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 510'-513'

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11-3/4"	130'	130'	C.T.S.
8-5/8"	1263.30'	1263.30'	C.T.S.
4-1/2"	5370.55'	5370.55'	325
1-1/2"	---	4464.63'	---

OPEN FLOW DATA

(Commingled) Pay zone depth (ft) 5265.5'-4541'

Producing formation Alexander, Benson, Riley

Gas: Initial open flow 750 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 696 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 1300 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: September 15, 1989

SEP 15 1989

(REVERSE)

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

3-STAGE FOAM FRAC

STAGE 1: Alexander: 11 holes (5265.5'-5247') Breakdown 2290 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 5,000 lbs. 80/100 sand, 30,000 lbs 20/40 sand, 500 gals 15% HCl, 564,000 scf of N₂

STAGE 2: Benson: 8 holes (4953.5'-4950.5') Breakdown 1710 psi, 60 Quality foam, 30 lbs./1000 gals Gel, 5,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand, 500 gals 15% HCl, 604,000 scf of N₂

STAGE 3: Riley: 12 holes (4570'-4541') Breakdown 1700 psi, 60 Quality Foam, 30 lbs./1000 gals Gel, 5,000 lbs. 80/100 sand, 30,000 lbs. 20/40 sand, 500 gals 15% HCl, 482,000 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
Soil and Fill			0	15	
Sand and Shale			15	139	Damp @ 60'
Red Rock			139	180	
Sand, Shale and Red Rock			180	510	
Coal			510	513	Coal
Sand			513	523	Damp @ 513'
Sand, Shale and Red Rock			523	879	
Sand and Shale			879	1447	1/2" stream water @ 535'
Sand			1447	1485	1/2" stream water @ 1476'
Sand and Shale			1485	1878	
Little Lime			1878	1892	
Shale			1892	1916	
Big Lime			1916	1972	<u>GAS CHECKS:</u>
Big Injun			1972	2106	1918' - No show
Shale			2106	2264	2109' - 4/10 thru 2" w/water
Weir			2264	2380	2425' - 10/10 thru 2" w/water
Sand and Shale			2380	3370	2926' - 10/10 thru 2" w/water
Warren			3370	3420	3431' - 6/10 thru 2" w/water
Sand and Shale			3420	4530	4002' - 20/10 thru 2" w/water
Riley			4530	4588	4510' - 14/10 thru 2" w/water
Sand and Shale			4588	4945	4606' - 28/10 thru 2" w/water
Benson			4945	4955	4890' - 22/10 thru 2" w/water
Sand and Shale			4955	5200	5080' - 24/10 thru 2" w/water
Alexander			5200	5270	5301' - 20/10 thru 2" w/water
Sand and Shale			5270	5490 T.D.	5490' - 8/10 thru 2" w/water

(Attach separate sheets as necessary)

095 1310

13

095-1310

Issued 7/17/89 Expires 7/17/91

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: L.L. JAMES #3 - WVTYL000703 3) Elevation: 1065'
- 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: 5400 feet
- 7) Approximate fresh water strata depths: 60', 560'
- 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	Fill-up (cu. ft.)
Conductor	11"	F-25	37.5	120'	120'	C.T.S.
Fresh Water	8 5/8"	J-55	20.0	1615'	1615'	C.T.S.
Coal						38CSR18-11.3 38CSR18-11.2 2
Intermediate						
Production	4 1/2"	J-55	10.5	5315'	5315'	38CSR18-11.1
Tubing	1 1/2"	H-40	2.75			
Liners						

PACKERS : Kind _____
Sizes _____
Depths set _____

RECEIVED
JUN 27 1989

For Division of Oil and Gas Use Only

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

4599
115
Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond Blanket sure Agent
(Type)

RECEIVED
JUN 27 1989

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date: June 20, 1989
Operator's well number
JAMES #3 - WVTYL000703
API Well No: 47 - 095 - 1310
State - County - Permit

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 Lawrence L. James
 - Address Rt. 1, Box 104
Greenwood, WV 26360
 - (b) Name _____
 - Address _____
 - (c) Name _____
 - Address _____
- 6) Inspector Glen P. Robinson
- Address Rt. 1, #6 Mt. Pleasant Est.
Mineralwells, WV 26150
 - Telephone (304)-489-9162
- 5) (a) Coal Operator:
- Name None
 - Address _____
 - (b) Coal Owner(s) with Declaration
 - Name _____
 - Address _____
 - Name _____
 - Address _____
 - (c) Coal Lessee with Declaration
 - Name _____
 - 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. Paletti
 Its: Designated Agent
 Address P.O. Box N
Glenville, WV 26351
 Telephone (304) 462-5781

Subscribed and sworn before me this 22nd day of June, 1989

Jo Lorraine Howe Notary Public
 My commission expires July 2, 1996