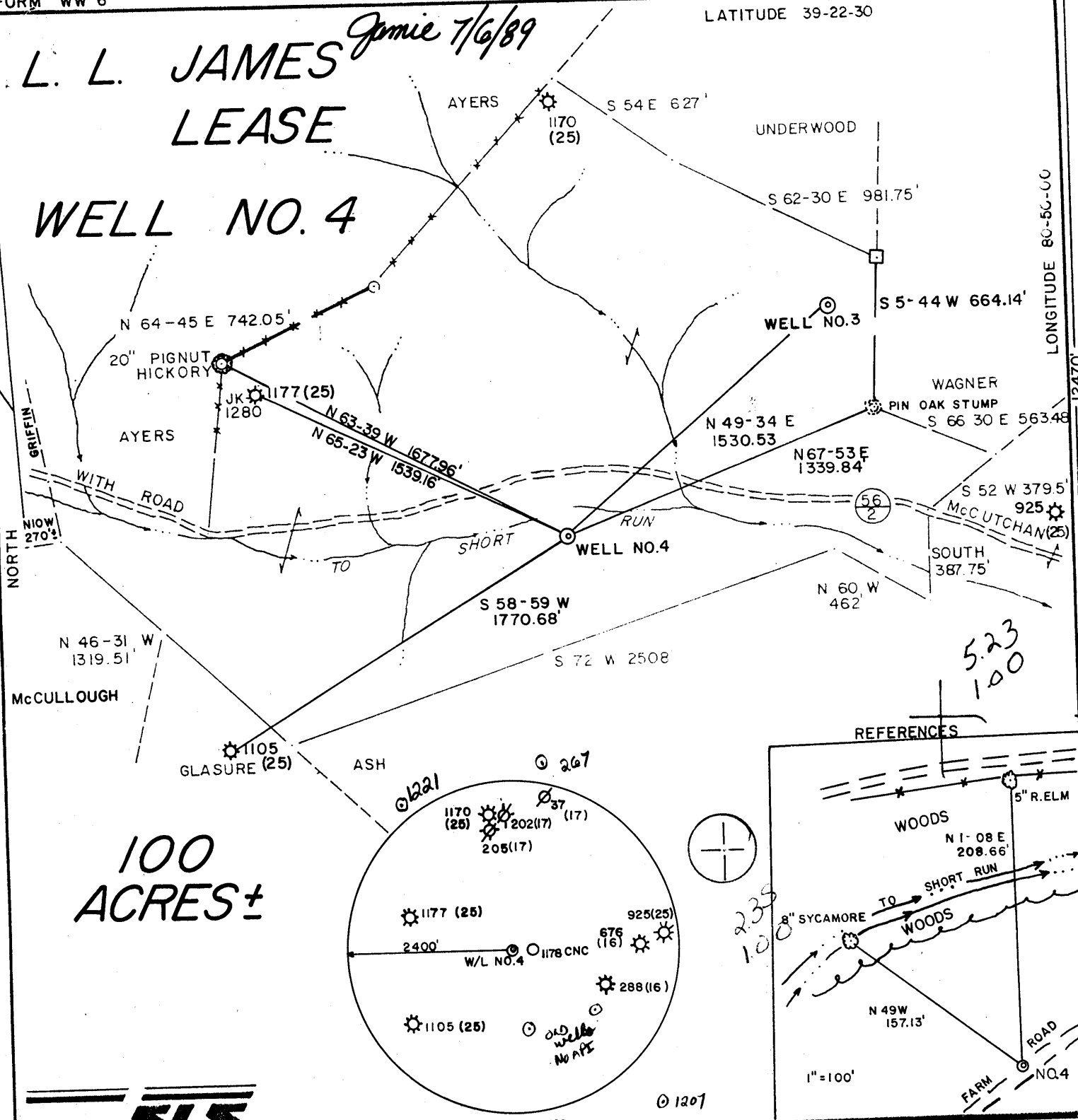


# L. L. JAMES LEASE WELL NO. 4

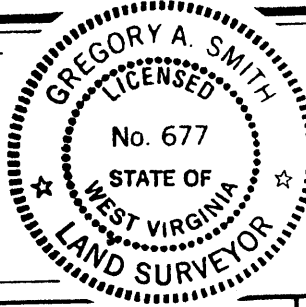
*Janie 7/6/89*



## 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 MAY 5, 19 89  
 OPERATORS WELL NO. JAMES NO. 4  
WVTYLO00704  
 API WELL NO. 47 - 095 - 1311  
 STATE COUNTY PERMIT

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

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_ IF "GAS" PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 800' WATERSHED SHORT RUN QUADRANGLE WEST UNION 7.5' 671 COUNTY NAME TYLER  
 DISTRICT CENTERVILLE 1 COUNTY TYLER ACRES 100 LEASE ACRES 100 LEASE NO. WVOI924-\*  
 SURFACE OWNER LAWRENCE L. AND THELMA E. JAMES  
 ROYALTY OWNER S. M. DOAK HEIRS ET. AL.  
 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 5150'

WELL OPERATOR EASTERN AMERICAN ENERGY CORP. DESIGNATED AGENT JOHN M. PALETTI JUL 21 1989  
 ADDRESS BOX N GLENVILLE, WV 26351 ADDRESS 501 56TH ST. CHARLESTON, WV 25304

*259*  
*Gabe Wilbur (092)*

WR RECEIVED  
SEP 19 1989

17-Jul-89  
API # 47- 95-01311

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

DIVISION OF OIL & GAS  
**DEPT. OF ENERGY** Well Operator's Report of Well Work

Farm name: JAMES, LAWRENCE L. Operator Well No.: L.L. JAMES #4

LOCATION: Elevation: 800.00 Quadrangle: WEST UNION

District: CENTERVILLE County: TYLER  
Latitude: 12470 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude 5280 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: 08/11/89  
Well work Completed: 08/30/89  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary  Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5130'  
Fresh water depths (ft) 30', 290'  
Salt water depths (ft) 1490'

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): None

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			
11-3/4"	133.10'	133.10'	C.T.S.
8-5/8"	1371.00'	1371.00'	C.T.S.
4-1/2"	5110.90'	5110.90'	490
1-1/2"	---	4983.05'	--

OPEN FLOW DATA

(Commingled)

Producing formation Alexander, Benson, Riley Pay zone depth (ft) 5001.5'-4270.5'  
Gas: Initial open flow 1400 MCF/d Oil: Initial open flow N/A Bbl/d  
Final open flow 989 MCF/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 15 Hours  
Static rock Pressure 1480 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 25 1989

(REVERSE)

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

3 STAGE FOAM FRAC

STAGE 1: Alexander: 11 holes (5001.5'-4982') Breakdown 2350 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, 576,200 scf of N<sub>2</sub>

STAGE 2: Benson: 8 holes (4689.5'-4686.5') Breakdown 3400 psi, 60 Quality foam, 30 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 35,000 lbs 20/40 sand, 500 gals 15% HCl, 598,900 scf of N<sub>2</sub>

STAGE 3: Riley: 12 holes (4308'-4279.5') Breakdown 3700 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, 554,800 scf of N<sub>2</sub>

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay and Fill			0	10	
Red Rock			10	30	
Sand			30	50	3/4" stream water @ 30'
Red Rock and Shale			50	130	
Sand and Shale			130	450	1/2" stream water @ 290'
Sand, Shale and Red Rock			450	800	
Sand and Shale			800	1380	Damp @ 1490'
Sand			1380	1510	
Sand and Shale			1510	1618	
Little Lime			1618	1633	
Shale			1633	1660	<u>GAS CHECKS:</u>
Big Lime			1660	1714	2216' - No show
Big Injun			1714	1852	2617' - 6/10 thru 1" w/water
Shale			1852	2004	3047' - 4/10 thru 1" w/water
Weir			2004	2122	3202' - 4/10 thru 1" w/water
Sand and Shale			2122	3112	3697' - 4/10 thru 1" w/water
Warren			3112	3164	4222' - 4/10 thru 1" w/water
Sand and Shale			3164	4270	4377' - 10/10 thru 1" w/water
Riley			4270	4314	4593' - 10/10 thru 1" w/water
Sand and Shale			4314	4681	4749' - 50/10 thru 1" w/water
Benson			4681	4691	4933' - 20/10 thru 1" w/water
Sand and Shale			4691	4930	5025' - 40/10 thru 1" w/water
Alexander			4930	5006	T.D. - 34/10 thru 1" w/water
Sand and Shale			5006	5130 T.D.	D.C. - 20/10 thru 1" w/water

095-1311

(Attach separate sheets as necessary)

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095-1311

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

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: L.L. JAMES #4 - WVTYL000704 3) Elevation: 800'
- 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: 5150 feet
- 7) Approximate fresh water strata depths: 60', 315', 745'
- 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	1350'	1350'	C.T.S.
Coal						38CSR18-11.3
Intermediate						38CSR18-11.2 2
Production	4 1/2"	J-55	10.5	5065'	5065'	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

4600 15  
 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blompet Agent  
(Type)



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: June 20, 1989  
2) Operator's well number  
JAMES #4 - WVTYL000704  
3) API Well No: 47 - 095 - 1311  
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

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