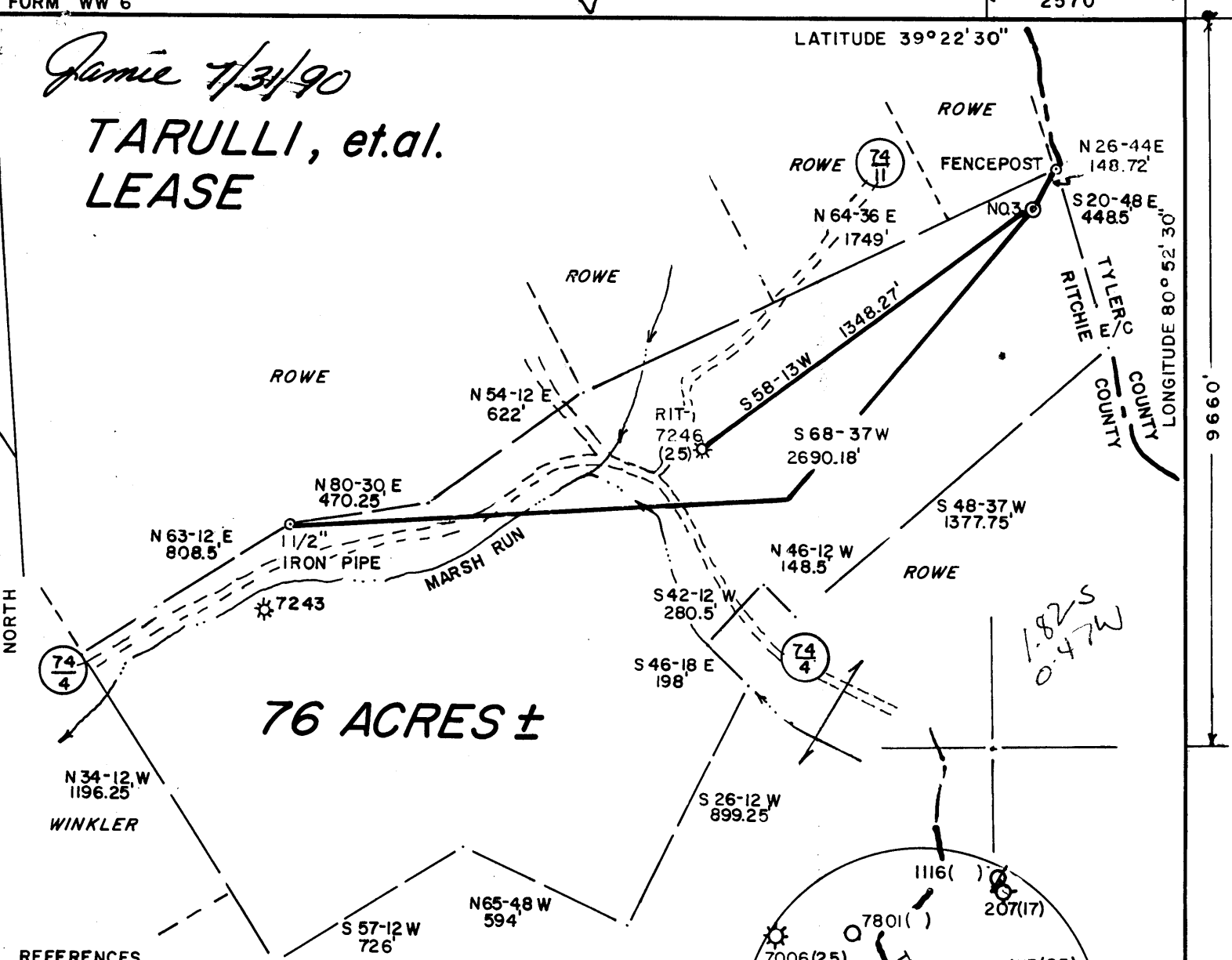


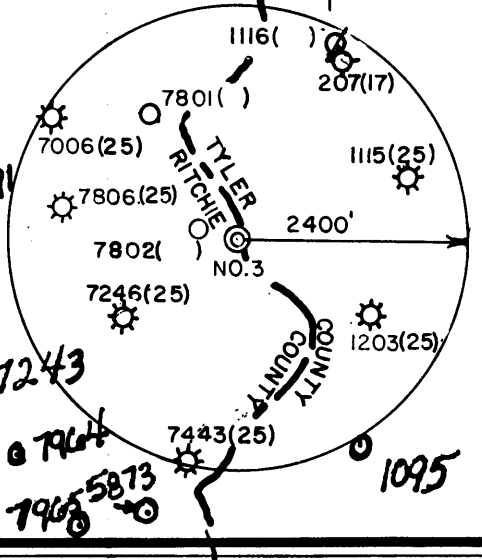
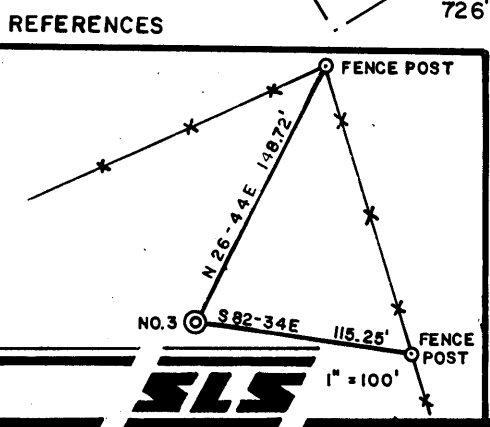
Jamie 7/31/90
TARULLI, et.al.
LEASE

LATITUDE 39°22'30"

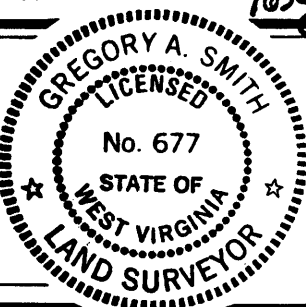


76 ACRES ±

WELL NO. 3



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE JULY 19, 1990
 OPERATORS WELL NO. TARULLI NO. 3
WVRIT004703
 API WELL NO. 47 - 085 - 7966
 STATE COUNTY PERMIT

L.L.S. 677 Gregory A. Smith

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 1097(25-5)
 PROVEN SOURCE OF ELEVATION SLS TBM AT RIT-7246 ELEV.= 1052' SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1255' WATERSHED MARSH RUN
 DISTRICT CLAY COUNTY RITCHIE QUADRANGLE PENNSBORO 7.5'
 SURFACE OWNER JEANETTE BEAN, ET AL. ACREAGE 76.8 *West Union WUC*
 ROYALTY OWNER JOSEPH BISHOP HRS., et.al. LEASE ACREAGE 76
 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 ALEXANDER
 ESTIMATED DEPTH 5580'

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

TARULLI #3

Farm name: ROWE, HADSEL POA Operator Well No.: WWRIT00470/3

LOCATION: Elevation: 1255.00 Quadrangle: PENNSBORO

District: CLAY County: RITCHIE
Latitude: 9660 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 2570 Feet West of 80 Deg. 52 Min. 30 Sec.

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

Agent: DONALD C. SUPCOE

Inspector: SAMUEL HERSMAN
Permit Issued: 07/31/90
Well work Commenced: 08/13/90
Well work Completed: 08/31/90
Verbal Plugging
Permission granted on: _____
Rotary Cable _____ Rig
Total Depth (feet) 5394'
Fresh water depths (ft) 50', 232'

Salt water depths (ft) 1710', 1414'

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

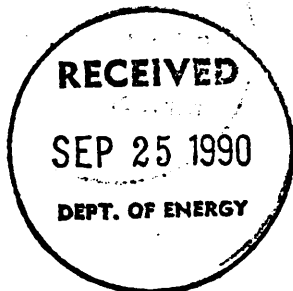
Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1414.00	1414.00	C.T.S.
4-1/2"	5239.30	5239.30	219
1-1/2"	---	5065.80	---

OPEN FLOW DATA

Producing formation Benson, Riley Pay zone depth (ft) 5126.5'-4728'
Gas: Initial open flow 492 MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 440 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests 15 Hours
Static rock Pressure 810 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.
By: Rich Heffelfinger, Vice President - Regional Operations
Date: September 7, 1990

OCT 1 1990

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

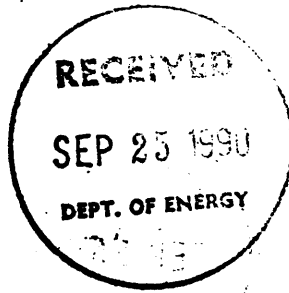
2-STAGE FOAM-FRAC:

STAGE 1: Benson (8 holes (5126.5'-5124.5')). Breakdown 1700 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 60,000 lbs 20/40 sand, 500 gals HCl, 729,000 scf of N₂

STAGE 2: Riley - 14 holes (4759'-4728') Breakdown 3330 psi, 65 Quality foam, 20 lbs/1000 gals Gel, 5,000 lbs 80/100 sand, 60,000 lbs 20/40 sand, 500 gals HCl, 748,000 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
K.B. - Ground Level			0	10	Hole damp @ 50'
Fill			10	12	1/2" stream Water @ 232'
Sand and Red Rock			12	30	Hole Damp @ 1414'
Soapstone			30	35	Hole Damp @ 1710'
Red Rock and Shale			35	370	
Red Rock			370	415	
Shale			415	476	
Red Rock and Shale			476	550	<u>GAS CHECKS:</u>
Shale			550	606	2202' - No show
Sand and Shale			606	750	2329' - 18/10 thru 2" w/water
Sand			750	770	2707' - 14/10 thru 2" w/water
Shale and Red Rock			770	800	3119' - 14/10 thru 2" w/water
Sand and Black Shale			800	895	3465' - 16/10 thru 2" w/water
Sand			895	910	3716' - 14/10 thru 2" w/water
Sand and Shale			910	1020	4191' - 12/10 thru 2" w/water
Shale and Red Rock			1020	1680	4635' - 16/10 thru 2" w/water
Sand			1680	1770	4824' - 16/10 thru 2" w/water
Sand and Shale			1770	2066	5173' - 16/10 thru 2" w/water
Little Lime			2066	2078	T.D. - 10/10 thru 2" w/water
Sand			2078	2106	D.C. - 6/10 thru 2" w/water
Big Lime			2106	2180	
Big Injun			2180	2298	
Shale and Sandy Shale			2298	2468	
Weir			2468	2586	
Shale			2586	2649	
Berea			2649	2654	
Shale with Minor Sand			2654	3580	
Warren			3580	3630	
Shale, Sandy Shale, Minor Sand			3630	4726	
Riley			4726	4764	
Shale and Sandy Shale			4764	5132	
Benson			5132	5136	
Shale and Sandy Shale			5136	5394 T.D.	



11023

(Attach separate sheets as necessary)

085-7966
 Issued 7/31/90
 Expires 7/31/92
 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) 538
- 2) Operator's Well Number: TARULLI #3 3) Elevation: 1,255'
 WVRIT004701
- 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: 5580 feet 445' 113'
- 7) Approximate fresh water strata depths: 298, 435, 885 - 995'
- 8) Approximate salt water depths: 1703 - 1713 1760'
- 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)

RECEIVED
 Division of Energy
 JUL 30 90
 Permitting
 Oil and Gas Section

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor	11 "	F-25	37.5	30'	-----	
Fresh Water	8-5/8"	J-55	20.0	1400'	•1400'	C.T.S. 38CSR18-11.3
Coal						38CSR18-11.2.2
Intermediate						
Production	4-1/2"	J-55	10.5	5495	5495	38CSR18-11.1
Tubing	1-1/2"	H-40	2.75			
Liners						

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

11023

11703
21

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

RECEIVED

Division of Energy

JUL 30 90

Permitting
Oil and Gas Section

1) Date: July 27, 1990
2) Operator's well number
TARULLI #3 WVRT004701
3) API Well No: 47 - 085 - 7966
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 Hadsel Rowe, POA
Address Rt. 2
Pennsboro, WV 26415
- (b) Name _____
Address _____
- (c) Name _____
Address _____
- 5) (a) Coal Operator:
Name _____
Address _____
- (b) Coal Owner(s) with Declaration
Name _____
Address _____
- (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector Samuel Hersman
Address Rt. 1, Box 240
Harrisville, WV 26362
Telephone (304)-628-3185

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 _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- XX Certified Mail (Postmarked postal receipt attached) Inspector only
- _____ Publication (Notice of Publication attached) Surface Owner hand delivered

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 27th day of July, 1990

Cynthia J. Fry

Notary Public
My commission expires January 25, 1999

