



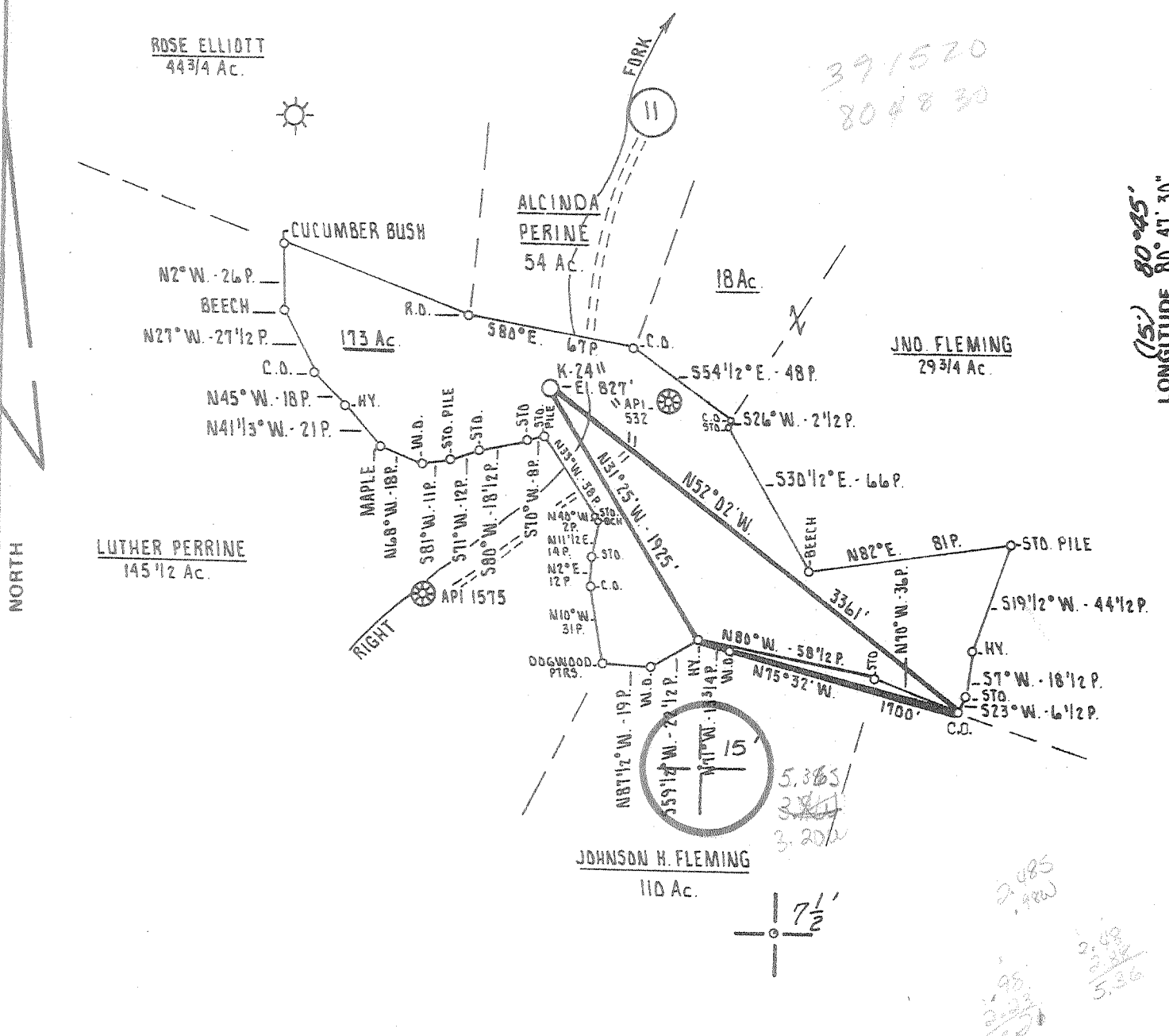
5300'

LATITUDE 39° 17' 30" (15) 39° 20'

39 15 20  
80 48 30

LONGITUDE 80° 45' (15) 80° 47' 30"

13,050



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
 PROVEN SOURCE OF ELEVATION BERRY ENERGY WELL # B-276 ELEVATION 1038'

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 MINES.  
 (SIGNED) Daniel L. Wheeler  
 R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 FORM IV-6 (8-78)



DATE NOVEMBER 13<sup>th</sup> 19 79  
 OPERATOR'S WELL NO. K-24-1  
 API WELL NO. 47 - 017 - 2543  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP \_\_\_ SHALLOW X  
 LOCATION: ELEVATION 827'59" WATER SHED ARNOLDS CREEK  
 DISTRICT WEST UNION COUNTY DODDRIDGE  
 QUADRANGLE WEST UNION 7.5', 15'  
 SURFACE OWNER RITCHIE N. BRITTON ACREAGE \_\_\_\_\_  
 OIL & GAS ROYALTY OWNER MICHAEL S. FRANCIS LEASE ACREAGE 173  
 LEASE NO. K-24-1  
 PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5150  
 WELL OPERATOR J. and J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
 ADDRESS P.D. BOX 48 ADDRESS P.D. BOX 48  
 BUCKHANNON, WEST VIRGINIA 26201 BUCKHANNON, WEST VIRGINIA 26201

Reviewed ALB

WR-35

21-Mar-00  
API # 47-017-02543-F

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: BRITTON, ALLEN R. Operator Well No.: Francis 1 J-106

LOCATION: Elevation: 827.00 Quadrangle: WEST UNION  
District: WEST UNION County: DODDRIDGE  
Latitude: 5300 Feet South of 39 Deg. 17 Min. 30 Sec.  
Longitude: 13050 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: EASTERN AMERICAN ENERGY CORP.  
P O BOX 820  
GLENVILLE WV 26351

Agent: JOHN PALETTI

Inspector: MIKE UNDERWOOD

Permit Issued: 03/21/00

Well work commenced: 03/30/00

Well work completed: 04/05/00

Verbal plugging

permission granted on:

Rotary  Cable  Rig

Fresh water depths (ft) 75', 190'

Is coal being mined in area? (Y/N) N

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft.
8-5/8"	1219'	1219'	310 sxs
4-1/2"		5079.2'	300 sxs

Total Depth (feet) 5207' (03/80)

Salt water depths (ft) NONE

Coal Depths (ft) NONE

OPEN FLOW DATA

Producing Formation BENSON/3<sup>RD</sup> RILEY Pay zone depth (ft) 4636' to 4697.5'

Gas: Initial open flow 313 MCF/d Oil: Initial open flow N/A Bbl/d

Final open flow 345 MCF/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 24 Hours

Static rock pressure 880 psi (surface pressure) after 48 Hours

2<sup>nd</sup> Producing Formation RILEY Pay zone depth (ft) 4292' to 4260.5'

Gas: Initial open flow N/A MCF/d Oil: Initial open flow      Bbl/d

Final open flow N/A MCF/d Final open flow      Bbl/d

Time of open flow between initial and final tests      Hours

Static rock pressure      psi (surface pressure) after      Hours

3<sup>rd</sup> Producing Formation BALLTOWN Pay zone depth (ft) 3704' to 3634'

Gas: Initial open flow N/A MCF/d Oil: Initial open flow      Bbl/d

Final open flow N/A MCF/d Final open flow      Bbl/d

Time of open flow between initial and final tests      Hours

Static rock pressure      psi (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.

JOHN PALETTI, AGENT

For: EASTERN AMERICAN ENERGY CORPORATION

By: John Paletti/ksa

Date: APRIL 19, 2000

RECEIVED  
Office of Oil & Gas  
Permitting  
APR 20 2000  
WV Division of  
Environmental Protection

0000 2543 F

APR 28 2000

FRANCIS 1 J-106 WR35

STAGE ONE: Benson/3<sup>rd</sup> Riley

12 holes (4636' - 4697.5')

Fracture: 500 gal 15% HCl acid, 25# cross-linked gel, and 25,000# 20/40 sand. Formation broke at 1402 psi

STAGE TWO: Riley

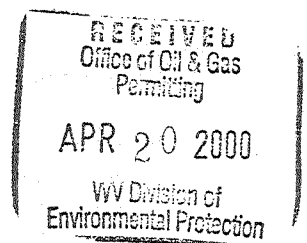
15 holes (4292' - 4260.5')

Fracture: 500 gal 15% HCl acid, 25# cross-linked gel, and 30,000# 20/40 sand. Formation broke at 3500 psi

STAGE THREE: Balltown

12 holes (3704' - 3634')

Fracture: 500 gal 15% HCl acid, 25# cross-linked gel, and 30,000# 20/40 sand. Formation broke at 3479 psi



APR 15 1980

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

WELL OPERATOR'S REPORT  
REGARDING REWORKING AND OR RECOMPLETION, OR PHYSICAL CHANGE

WELL TYPE: Oil /  Gas /  Liquid Injection /  Waste Disposal  
 Production /  Underground storage /  Deep /  Shallow  
 LOCATION: Elevation: 827 Watershed: Arnolds Creek  
 District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR: J & J Enterprises, Inc. DESIGNATED AGENT: H.L. Barnett  
 Address: P.O. Box 48 Address: P.O. Box 48  
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Fracture or stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_

PERMIT ISSUED ON 11-19, 19 79 OIL & GAS INSPECTOR FOR THIS WORK:  
 Name: Paul Garrett  
 Address: 321 Beech St.  
Clarksburg, WV 26301

DEOLOGICAL TARGET FORMATION: Alexander Dept 4960-5000 feet  
 Depth of completed well, 5207 feet Rotary  Cable Tools \_\_\_\_\_  
 Water column depth: Fresh 75,190 feet; salt, 0 feet.  
 Is coal being mined in the area? No  
 Work was commenced 3-26, 19 80, and completed 3-31, 19 80

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft	New	Used	For drilling			Left in well
Completion	1 3/4	H-40	42	x		28	0	0 sks	None
Fresh water	5/8	ERW	23	x		1219	1219	310 sks	
Coal	5/8	ERW	23	x		1219	1219	310 sks	Stops
Intermediate									
Production	1 1/2	J-55	10.5	x		5079.20	5079.20	300	Depend set
Tubing									
Liners									Perforations:
									Top Bottom

OPEN FLOW DATA

Stratigraphic formation: Alexander Pay zone depth: 4978-5008 feet  
 Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow, 821 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d  
 Time of open flow between initial and final tests, 4 hours  
 Static pore pressure, 1800 psig (surface measurement) after 24 hours shut in  
 [If available due to multiple completion--]  
 Second stratigraphic formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
 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 pore pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

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

Alexander: Perforating 4978-5000 (22 Holes)

Fracturing: 762 Bbls: Fluid: 30,000 lbs. 80/100 sand  
55,000 lbs 20/40 sand; 300 gal Acid.

WELL 100

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of gas, oil, water and salt water, coal, etc.
Conductor			0	30	
Shale			39	60	Water @ 60'
Sand			60	95	
Sandy Shale			95	115	
Sand			115	127	
Red Rock & Shale			127	190	1" Stream water @ 190'
Sand			190	205	
Sandy Shale			205	240	
Sand			240	250	
Sandy Shale & Red Rock			250	275	
Sand			275	280	
Sandy Shale			280	362	
Lime			362	380	
Shale			380	500	
Red Rock & Shale			500	634	
Sandy Shale			634	642	
Sand & Shale			642	710	
Red Rock			710	735	
Shale			735	914	
Sandy Shale			914	942	
Sand & Shale			942	1090	
Red Rock & Shale			1090	1107	
Sand & Shale			1107	1645	
Little Lime			-1645	1656	
Red Rock & Shale			1656	1681	
Big Lime			-1681	1760	
Big Injun			1760	1830	
Shale			1830	1990	
Weir			1990	2100	
Shale			2100	2188	
Berea			-2188	2195	

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

Operator  
*Peter Battles*  
Peter Battles  
Geologist

NOTE: Regulation 2.117, provides as follows:  
"The term 'log' or 'well log' shall mean a systematic, identified, geological record of all formations, including test, encountered in the drilling of a well."

FORMATION	Top	Base of Soft	3 Feet	Bottom Feet	Remarks Including indicator of and salt water, etc.
Sand & Shale			2195	3078	
Speechley			3078	3170	
Sand & Shale			3170	3616	
Balltown			3616	3705	
Sand & Shale			3705	4694	
Benson			4694	4698	Gas @ 3930 20/10 thru 1" w/water
Sand & Shale			4698	4950	
Alexander			4950	5026	Gas @ 4730 13/10 thru 1" w/water
Shale			5026	5207	T.D. 5207

MAY 15 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-24-#1 API Well No. 47-017-2543 State County Permit

WELL TYPE: Oil / Gas X (If "Gas", Production X / Underground storage / Deep / Shallow X /)

LOCATION: Elevation: 827' Watershed: Arnold's Creek District: West Union County: Doddridge Quadrangle: West Union 7 1/2

WELL OPERATOR J & J Enterprises, Inc. Address P. O. Box 48 Buckhannon, W. Va. 26201

DESIGNATED AGENT H. L. Barnett Address P. O. Box 48 Buckhannon, W. Va. 26201

OIL & GAS ROYALTY OWNER Michael S. Francis et al Address 109 Ridenour Street Clarksburg, W. Va. 26301

COAL OPERATOR Ritchie Britton Address Arnold's Creek West Union, W. Va.

ACREAGE 173 SURFACE OWNER Michael & John Francis / William & Margaret Yoke Address 109 Ridenour Street Clarksburg, W. Va. 26301

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Address

FIELD SALE (IF MADE) TO: Name Address

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Paul Garrett Address 321 Beech Street Clarksburg, W. Va. 26301

OIL & GAS DIVISION DEPT. OF MINES

NOV 19 1979

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated August 23, 1978, to the undersigned well operator from Michael & John Francis; William Yoke, Jr. & Margaret Yoke

Recorded on December 14, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 106 at page 278. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate X / Plug off old formation / Perforate new formation / Other physical change in well (specify)

--please see also the work order on the reverse side hereof.

The above named well operator, coal owner(s), and coal lessee are hereby notified that any other permits which are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1604 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

BLANKET BOND

J & J ENTERPRISES, INC. Well Operator By PETER BATTLES GEOLOGIST



[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S. W. Jack Drilling Company  
Address P. O. Box 48  
Buckhannon, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5150 feet Rotary X / Cable tools      /  
Approximate water strata depths: Fresh, 100 feet; salt, 1600 feet.  
Approximate coal seam depths: 1000 Is coal being mined in the area? Yes      / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor	11 3/4	H-40	42	X		30	0	0 sks. Kinds None
Fresh water	8 5/8	ERW	23	X		880	880	250 sks.
Coal	8 5/8	ERW	23	X		880	880	250 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	X		5125	5125	250 sks. Depths set
Tubing								
Liners								Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All conditions herein are shown with Chapter 22, of the W. Va. Code, this location is hereby approved for drilling. This permit shall expire if operations have not commenced by 8-4-80.

  
Deputy Director, Oil & Gas Division

The undersigned coal operator and by any coal owner or coal lessee has provided a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator / owner / lessee of the coal under this well location has examined the proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_, 19\_\_\_\_

By \_\_\_\_\_  
Its \_\_\_\_\_