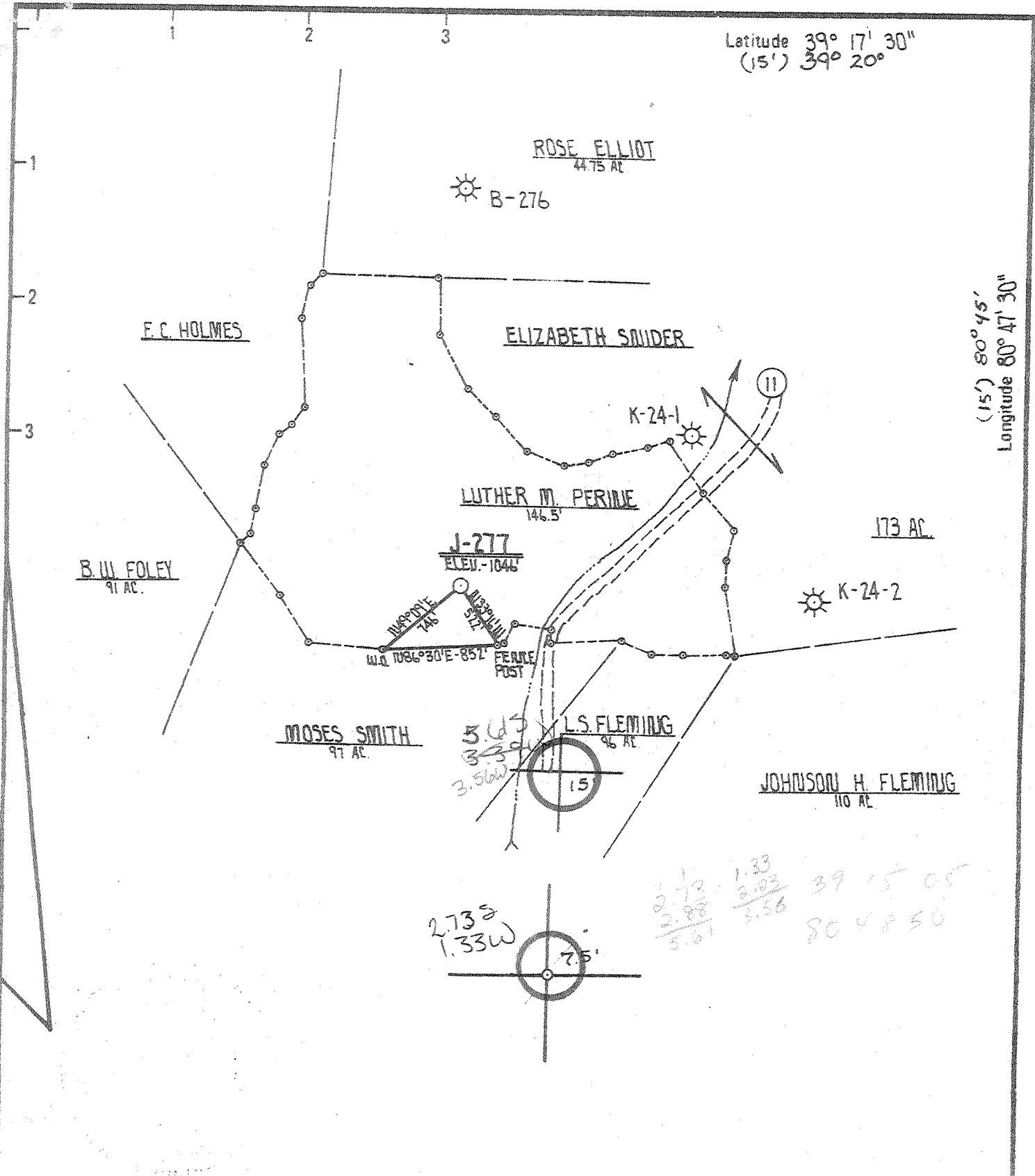


Latitude 39° 17' 30"  
(15') 39° 20"

(15') 80° 45'  
Longitude 80° 47' 30"



New Location   
 Drill Deeper   
 Abandonment

Minimum Error of Closure J. PART 100.200  
 Source of Elevation J. J. ENTERPRISES, INC. WELL # K-24-1  
ELEV. - 827'  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company J. J. ENTERPRISES, INC.  
 Address P.O. BOX 1740 BUCKHARTWOOD, W. VA 26201  
 Farm EUGENE R. FOXWORTHY / HARVEY STICKEL  
 Tract \_\_\_\_\_ Acres 146.5 Lease No. \_\_\_\_\_  
 Well (Farm) No. J-277 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1046'  
 Quadrangle WEST HUNTON 75' & 15' SE  
 County DODDRIDGE District WEST HUNTON  
 Engineer Arnold L. Wheeler  
 Engineer's Registration No. 530 L.L.S.  
 File No. 19/6A Drawing No. \_\_\_\_\_  
 Date 4/15/80 Scale 1" = 1,000'

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

WELL LOCATION MAP  
 FILE NO. 017-2686

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.  
 - Denotes one inch spaces on border line of original tracing.

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

WELL OPERATOR'S REPORT  
 OF  
 DRILLING, FRACURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
 (If "Gas", Production  / Underground storage  / Deep  / Shallow   
 LOCATION: Elevation: 1046 Watershed: Right Fork of Arnold's Creek  
 District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H.L. Barnett  
 Address Box 48 Address 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 4-18, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:  
 (IF APPLICABLE: PLUGGING OF WRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett  
 Address 321 Beech St.  
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth \_\_\_\_\_ feet  
 Depth of completed well, 5355 feet Rotary  / Cable Tools   
 Water strata depth: Fresh, 180 feet; salt None feet.  
 Coal seam depths: None Is coal being mined in the area? No  
 Work was commenced 6-11, 19 80, and completed 6-16, 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
Conductor	13/4	H-40	42	x		0	0	0 sks	Kinds
Fresh water	85/8	ERW	23	x		1519	1519	390 sks	
Coal	85/8	ERW	23	x		1519	1519	390 sks	Sizes
Intermediate									
Production	41/2	J-55	10.5	x		5230.95	5230.95		Depths set
Tubing									
Liners									Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5125-5200 feet  
 Gas: Initial open flow, \_\_\_\_\_ McF/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d  
 Final open flow 1,100 McF/d Final open flow, 6 Bbl/d  
 Time of open flow between initial and final tests, 96 hours  
 Static rock pressure, 1,765 psig (surface measurement) after \_\_\_\_\_ hours shut in  
 [If applicable due to multiple completion--]

Second producing 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 rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in

**RECORDS**  
**JUL 8 1980**  
 OIL & GAS DIVISION  
 DEPT. OF MINES

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

Alexander: Perforations: 5143-5175 (11 holes)  
 Fracturing: 300 gal Acid: 2,800 lbs. 80/100 sand: 5,600 lbs.  
 20/40 sand: 600 Bbls. fluid

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			0	10	
Shale			10	75	
Shale & Red Rock			75	140	
Sand & Shale			140	215	1" stream water @ 180'
Shale & Red Rock			215	265	
Shale & Red Rock			265	295	
White Sand			295	380	
Shale & Sand			380	630	
Shale & Red Rock			630	845	
Sand & Shale			845	1060	
Sand & Shale			1060	1085	
Shale & Sand			1085	1280	
Shale & White Sand			1280	1370	
Sand & Shale			1370	1395	
Shale			1395	1490	
Sand & Shale			1490	1550	
Shale			1550	1850	
Big Lime			1850	2020	
Shale			2020	2300	Gas ck @ 2234 6/10 thru 11/2" w/ water
Sand & Shale			2300	3655	Gas ck @ 3403 4/10 thru 11/2" water:
Sand			3655	3840	
Shale			3840	4055	Gas ck @ 4083 4/10 thru 11/2" water:
Sand			4055	4195	
Shale			4195	4855	
Brown Sand			4855	4860	Gas ck @ 4950' 2/10 thru 11/2" w/water
Shale			4860	5125	
<u>Alexander</u>			5125	5200	Gas ck @ 5353 3/10 thru 11/2" w/ water
Shale			5200	5355	T.D. 5355 Final ck 1/2 way 2/10 1 1/2" w/water

(Attach separate sheets to complete as necessary.)

J & J Enterprises, Inc.

Well Operator

*Peter Battles*

Peter Battles  
Geologist

NOTE: Regulation 2.02(d) provides as follows:  
 "The term 'log' or 'well log' shall mean a systematic, detailed geological record of all formations, including coal, encountered in the drilling of a well."

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-277  
API Well No. 47 017 2686  
State County Permit

WELL TYPE: Oil / Gas  /  
(If "Gas", Production  / Underground storage / Deep / Shallow  /)  
LOCATION: Elevation: 1046 Watershed: Right Fork of Arnold's Creek  
District: West Union County: Doddridge Quadrangle: West Union 7.5'

WELL OPERATOR J & J Enterprises, Inc.  
Address Box 48  
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett  
Address Box 48  
Buckhannon, WV 26201

OIL & GAS COAL OPERATOR  
COAL OPERATOR Eugene R. Foxworthy/Harvey Stickel  
Address West Union West Union  
WV 26456 WV 26456

COAL OPERATOR None  
Address

ACREAGE 146.5  
SURFACE OWNER Eugene & Martha Foxworthy  
Address West Union, WV 26456  
Acreage 141.3

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name Eugene & Martha Foxworthy  
Address West Union, WV 26456  
Name Harvey & Melva Stickel  
Address West Union, WV 26456

FIELD SALE (IF MADE) TO:  
Name  
Address

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address  
APR 18 1980

OIL & GAS INSPECTOR TO BE NOTIFIED  
Name Paul Garrett  
Address 321 Beech St.  
Clarksburg, WV 26301

OIL & GAS DIVISION  
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract  / dated 3-12, 1980, to the undersigned well operator from Justin L. Henderson

If said deed, lease, or other contract has been recorded:  
Recorded on 4-8, 1980, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Assignment Book 114 at page 351. A permit is requested as follows:

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

The above named well operator, coal owner(s), and coal lessee are hereby notified that any...  
Copies of this Permit Application and the enclosed plat and declaration 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 GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
601 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 345-3392

BLANKET BOND

J & J Enterprises, Inc.  
Well Operator  
By Peter Battles  
Its 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, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5450 feet Rotary  / Cable tools  /

Approximate water strata depths: Fresh, 300 feet; salt, None feet.

Approximate coal seam depths: None Is coal being mined in the area? Yes  No

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		
Conductor	11 3/4	H-40	42	x		30	0	0 sks	Kinds None
Fresh water	8 5/8	ERW	23	x		1425	1425	375 sks	
Coal	8 5/8	ERW	23	x		1425	1425	375 sks	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5450	5450	300 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 to be done at the well site.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-23-80.

Robert S. [Signature]  
Deputy Director - Oil & Gas Division

The following affidavit must be completed by the coal operator and by any coal owner or coal lessee who has records. A declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

AFFIDAVIT

The undersigned coal operator            / owner            / lessee            / of the coal under this well location has examined this 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