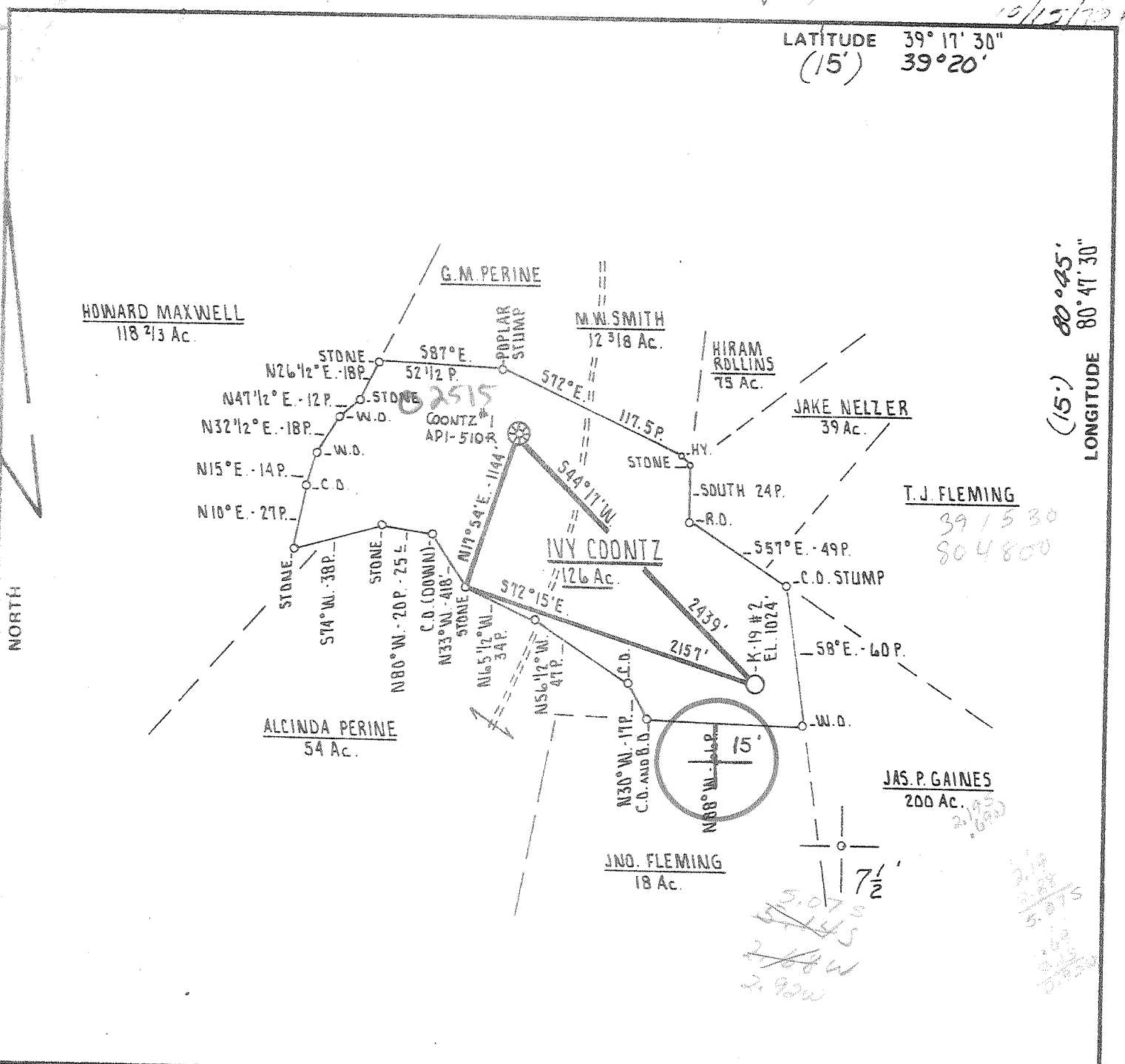


10/12/79

LATITUDE 39° 17' 30"  
(15') 39° 20'

LONGITUDE 80° 45'  
(15') 80° 47' 30"



FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1 PART IN 200  
PROVEN SOURCE OF ELEVATION H. COONTZ #1  
ELEVATION 818'

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) Samuel L. Wheeler  
R.P.E. \_\_\_\_\_ L.L.S. 530

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
FORM IV-6 (878)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

DATE OCTOBER 10<sup>th</sup>, 19 79  
OPERATOR'S WELL NO. K-19 #2  
API WELL NO. 47 - 017 - 2510  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1024' WATER SHED RIGHT FORK  
DISTRICT WEST UNION COUNTY DODDRIDGE  
QUADRANGLE WEST UNION T.5, 15' SE  
SURFACE OWNER BITCHIE N. BRITTON ACREAGE 40.5 Ac.  
OIL & GAS ROYALTY OWNER IVY COONTZ LEASE ACREAGE 126 Ac.  
LEASE NO. K-19  
PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  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', 5450'  
WELL OPERATOR J. and J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT  
ADDRESS P.O. BOX 48 BUCKHANNON WEST VIRGINIA 26201  
ADDRESS P.O. BOX 48 BUCKHANNON WEST VIRGINIA 26201  
NOV 6 1979

FORMATION	Color	Hard or Soft	4 Feet	Bottom Feet	REMARKS Including indication of gas, oil, sand and salt water, etc., etc.
hale			4970	5100	
<u>lexander</u>			5100	5170	
hale			5170	5294	
			TD	5294	

FORM 700  
(Obsolete)  
[08-78]

RECEIVED

NOV 26 1979

Date: November 19, 1979

Operator's Well No. K-19-#2

API Well No. 17 - 017 - 2510  
State County Ferris

OIL & GAS DIVISION  
DEPT. OF MINES

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

WELL OPERATOR'S REPORT 4  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil  / Gas  / Liquid Injection  Waste Disposal

(If "Gas", Production  / Underground storage  / Deep  / Shallow

LOCATION: Elevation: 1024 Watershed: Right Fork of Arnold's Creek

District: West Union County: Doddridge Quadrangle: West Union 7 1/2

WELL OPERATOR J & J Enterprises, Inc. DESIGNATED AGENT H. L. Barnett

Address P. O. Box 48 Address P. O. Box 48

Buckhannon, W. Va. 26201 Buckhannon, W. Va. 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 October 15, 1979

OIL & GAS INSPECTOR FOR THIS WORK:

(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED

Name Paul Garrett

Address 321 Beech Street

\_\_\_\_\_, 19\_\_\_\_, Clarksburg, W. Va. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5100 feet

Depth of completed well, 5308 feet Rotary  / Cable Tools

Water strata depth: Fresh, 510 feet; salt, 0 feet.

Coal seam depths: None Is coal being mined in the area?

Work was commenced October 18, 1979, and completed October 25, 1979

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling	Left in well		
Conductor	113/4	H-40	42	X					None
Fresh water	8 5/8	ERW	23	X		999	999	270 sks.	
Coal	8 5/8	ERW	23	X		999	999	270 sks.	
Intermediate									
Production	4 1/2	J-55	10.5	X		5228.65	5228.65	640 sks.	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									5124 5132
									5142 5144
									5154 5156
									5168 5170

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5124-5168 feet

Gas: Initial open flow, \_\_\_\_\_ Mcf/d Oil: Initial open flow, \_\_\_\_\_ Bbl/d

Final open flow, 950 Mcf/d Final open flow, \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests, 4 hours

Static rock pressure, 1620 psig (surface measurement) after 40 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

(Continue on reverse side)

DEC 7 1979

198-781

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

Alexander - Perforations: 5124-5126, 3 holes; 5130-5132, 3 holes; 5142-5144, 3 holes;  
5154-5156, 3 holes; 5168-5170, 3 holes.

Fracturing: 500 Gal. Acid; 5,000 lbs. Sand 80/100 wire mesh.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil, gas, and salt water, coal, etc.
Shale			0	100	
Sandy Shale			100	300	
Red Rock			300	350	
Sandy Shale			350	780	510' 1/2" Stream H <sub>2</sub> O
Red Rock			780	790	
Sand & Shale			790	845	
Red Rock			845	895	
Sand & Shale			895	1820	
Little Lime			1820	1870	
Big Lime			1870	1920	
Big Injun			1920	1975	
Shale			1975	2135	
Weir			2135	2235	
Shale			2235	2570	
Shaley Sand			2570	2700	
Shale			2700	3200	
Sand			3200	3255	
Shaley Sand			3255	3370	
Shale			3370	3400	
Shaley Sand			3400	3550	
Shale			3550	3600	
Shaley Sand			3600	3700	
Shale			3700	3780	
Sand			3780	3810	Show of Gas
Shale			3810	3970	
Shaley Sand			3970	4060	
Shale			4060	4140	
Shaley Sand			4140	4450	
Shale			4450	4620	
Sand			4620	4700	
Shaley Sand			4700	4810	
Shale			4810	4850	
Shaley Sand			4850	4970	

(Attach separate sheets as complete as necessary)

J & J ENTERPRISES, INC.

Well Operator

BY   
H. L. BARNETT

DESIGNATED AGENT

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. K-19-#2  
API Well No. 47 - 017 - 2510  
State County Permit

WELL TYPE: Oil      / Gas X /  
(If "Gas", Production X / Underground storage      / Deep      / Shallow X /)  
LOCATION: Elevation: 1024' Watershed: Right Fork of Arnolds Creek  
District: West Union County: Doddridge Quadrangle: West Union 7½

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 Ivy Coontz  
Address West Union  
West Virginia

COAL OPERATOR None  
Address     

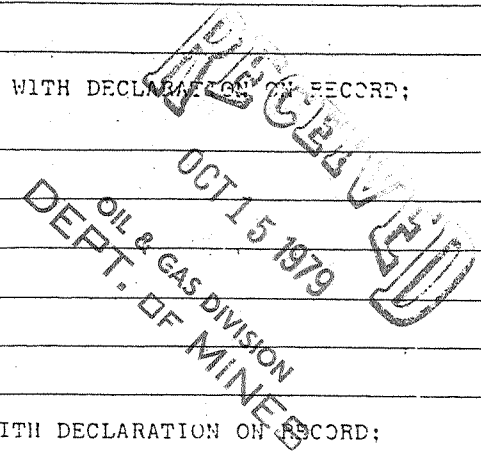
SURFACE OWNER Ritchie Britton  
Address Arnold's Creek  
West Union, West Virginia 26456  
Acreage 40.5

COAL OWNER(S) WITH DECLARATION ON RECORD:  
Name None  
Address       
Name       
Address     

FIELD SALE (IF MADE) TO:  
Name       
Address     

COAL LESSEE WITH DECLARATION ON RECORD:  
Name None  
Address     

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



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 July 13, 1978, to the undersigned well operator from Ivy Coontz  
[If said deed, lease, or other contract has been recorded:]

Recorded on August 29, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas <sup>Lease</sup> Book 104 at page 454. 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)     

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or 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 GEOPHYSICAL LOGS DIRECTLY TO:  
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION  
1619 WASHINGTON STREET EAST  
CHARLESTON, WV 25311  
TELEPHONE: (304) 348-3092

**BLANKET BOND**

J & J ENTERPRISES, INC.  
Well Operator  
By Peter Battles  
Its 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, 5450 feet Rotary X / Cable tools      /

Approximate water strata depths: Fresh, 1100 feet; salt, 0 feet.

Approximate coal seam depths: 125-127 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	30	Kinds
Fresh water	8 5/8	ERW	23	X		1400	1400	250 sks
Coal	8 5/8	ERW	23	X		1400	1400	250 sks
Intermediate								Sizes
Production	4 1/2	J-55	10.5	X		5400	5400	310 sks.
Tubing								Depths set
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 included as such on the Form IV-2 filed in connection therewith.

of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 6-15-80

  
Deputy Director - Gas Division

The following waiver must be submitted by the coal operator and by any coal owner or coal lessee who has recorded 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 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