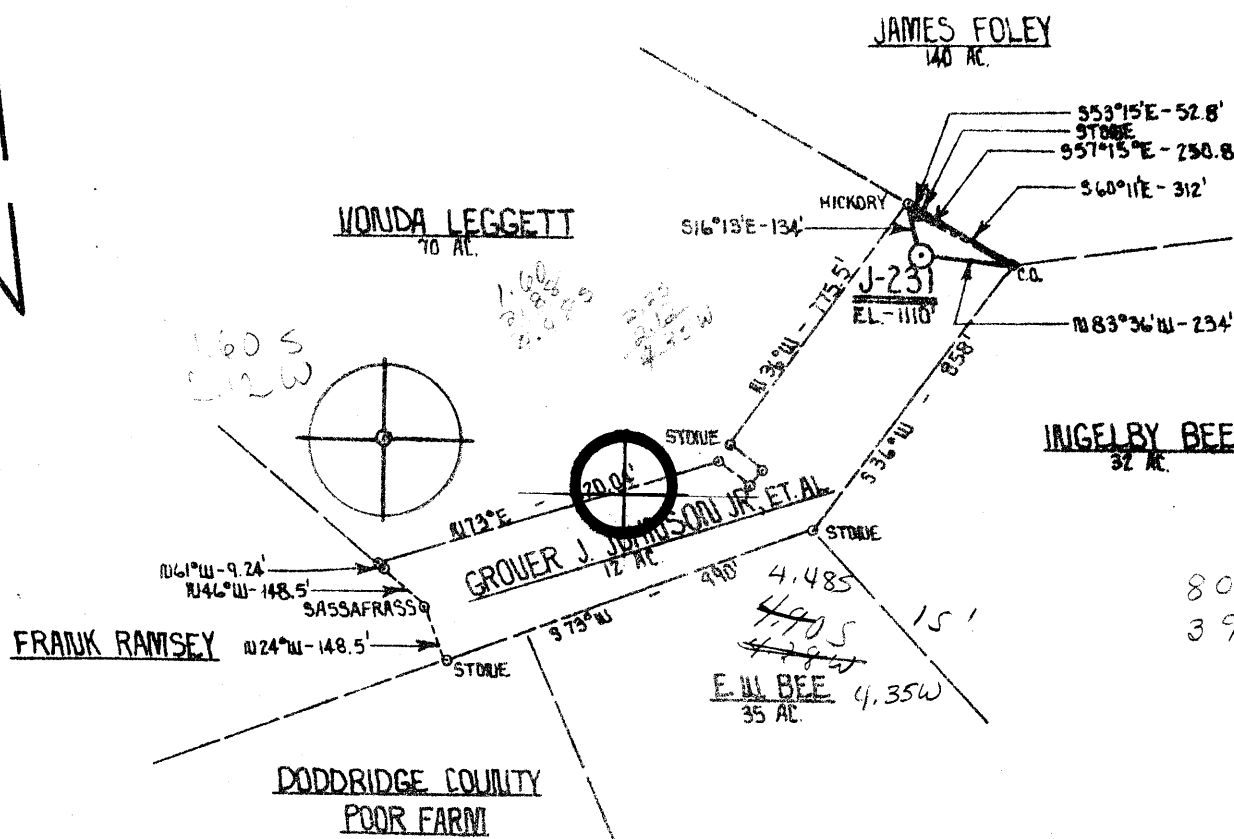


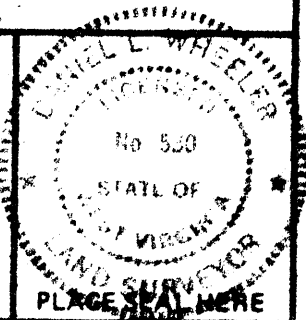
NORTH



80 49 50
39 16 10

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION J. & J. ENTER. INC. WELL # K-11-1 ELEV. - 1156'

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



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



DATE MARCH 4, 19 80
 OPERATOR'S WELL NO. J-231
 API WELL NO. _____
47 - 017 - 2618
 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 ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1110' WATER SHED CLAYLICK RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE
 QUADRANGLE WEST VIRGINIA 75 SE
 SURFACE OWNER GROVER J. JOHNSON JR. ET AL. ACREAGE 12
 OIL & GAS ROYALTY OWNER GROVER J. JOHNSON JR. ET AL. LEASE ACREAGE 12
 LEASE NO. K-923
 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 5,150'
 WELL OPERATOR J. & J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA. 26201 ADDRESS P.O. BOX 48 BUCKHANNON, W. VA. 26201

Date: 5-7, 19 80

Operator's Well No. J-231
API Well No. 017 - 2618
State County Permit

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

WELL OPERATOR'S REPORT
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: 1110 Watershed: Clay Lick Run
District: Central 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 3-7, 19 80, OIL & GAS INSPECTOR FOR THIS WORK:
Name Paul Garrett
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Address 321 Beech St.
Clarksburg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5370-5440 feet
Depth of completed well, 5615 feet Rotary / Cable Tools
Water strata depth: Fresh, 137-732 feet; salt, 0 feet.
Coal seam depths: 0 Is coal being mined in the area? No
Work was commenced 4-1, 1980, and completed 4-9, 1980

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	113/4H-40	42	42	x		30	0	0 sks	Kinds
Fresh water	8 5/8	BERW	23	x		1806.30	1806.30	480 sks	
Coal	8 5/8	BERW	23	x		1806.30	1806.30	480 sks	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	x		5509.10	5509.10	385 sks	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									5425 5291
									4295 3532

RECEIVED
MAY - 9 1980

OIL & GAS DIVISION
DEPT. OF MINES

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5370-5440 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 762 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 24 hours
Static rock pressure, 1050 psig (surface measurement) after 13 hours shut in

[If applicable due to multiple completion--]

Second producing formation Balltown-Warren Pay zone depth 4295-3532 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

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

Alexander-Perforating 5425-5291 (14 holes)

Fracturing: 250 lbs. acid: 15,000 lbs. 80/100 sand, 15,000 lbs. 20/40sand ,600 Bbls. Fluid.

Balltown & Warren: Perforating: 4295-3532(14 holes)

Fracturing: 250 lbs Acid: 10,000 lbs. 80/100 sand: 20/40 sand: 30,000 lbs. , 500 Bbls. fluid.

WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all Green and salt water, coal, oil and gas
Clay			0	5	
Red Rock			5	15	
Shale			15	25	
Shale & Red Rock			25	50	
Sand			50	55	
Sand, Shale & Red Rock			55	135	1/4" stream water @ 137'
Sand			135	140	
Red Rock			140	145	
Shale			145	232	
Sand			232	650	
Sand & Shale			650	675	
Sand			675	820	1"-1 1/2" stream water @ 732'
Sand & Shale			820	825	
Limestone & Sand			825	865	
Sand & Shale			865	888	
White Sand			888	935	
Sand & Shale			935	1375	
Sand			1375	1400	
Sand & Shale			1400	1640	
Sand			1640	1757	
Sand & Shale			1757	2068	
Lime & Red Rock			2068	2079	
Sand & Shale			2079	2140	
Big Lime			2140	2220	
Big Injun			2220	2270	
Shale			2270	2430	
Weir			2430	2550	
Shale			2550	2900	
Sand			2900	2925	
Shale			2925	3500	
Speechley			3500	3600	
Shale			3600	4270	

Attach separate sheets as complete as necessary.

J & J Enterprises, Inc.

Well Operator

By

Geo

Peter Battles
Peter Battles
Geologist

NOTE: Regulation 2.28 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."

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of oil, gas and salt water, etc., if any
Sand			4270	4300	
Shale			4300	4590	
Sand			4590	4620	
Shale			4620	5020	
Shaly Sand			5020	5130	
Shale			5130	5370	
Alexander			5370	5440	
Shale			5440	5630 T.D.	

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-231

API Well No. 47 - 017 - 2618
State County Permit

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

LOCATION: Elevation: 1110 Watershed: Clay Lick Run
District: Central County: Doddridge Quadrangle: West Union 7.5'

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 Grover & Wilda Johnson
Address Route 1
West Union, W. Va. 26456

COAL OPERATOR None
Address _____

ACREAGE 12
SURFACE OWNER Grover & Wilda Johnson
Address Route 1
West Union, W. Va. 26456
ACREAGE 12

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Grover & Wilda Johnson
Address Route 1
West Union, W. Va. 26456

FIELD SALE (IF MADE) TO:
Name _____
Address _____

Name _____
Address _____

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

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address _____
RECEIVED
MAR - 7 1980

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 X / other contract ___ / dated October 23, 1978, to the undersigned well operator from Grover & Wilda Johnson

[If said deed, lease, or other contract has been recorded:]
Recorded on October 24, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 105 at page 241. 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 objections 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
1601 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3097

BLANKET BOND

J & J ENTERPRISES, INC.
Well Operator
By Peter Battles
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, W. Va. 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 250 feet; salt, 0 feet.

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

CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft, New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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 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 11-10-80.

Handwritten signature of Robert T. [unclear]

Deputy Director - Oil & Gas Division

The following action must be completed 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.

By _____ Its _____