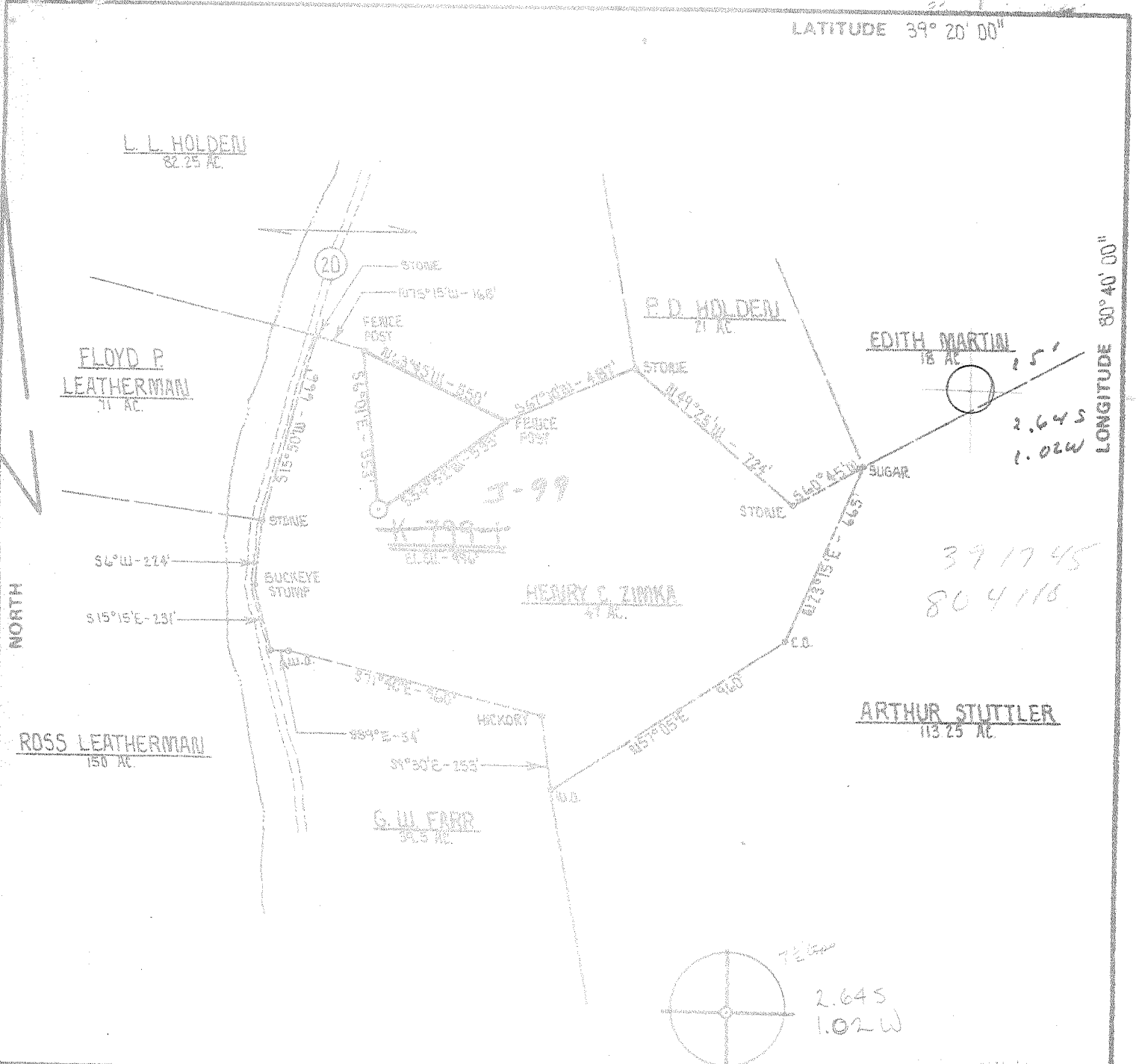


LATITUDE 39° 20' 00"

LONGITUDE 80° 40' 00"



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION B.M. ON RAIL ROAD AT MORGANSVILLE ELEV - 812'

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) David S. Warden
 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 FEBRUARY 27 19 80
 OPERATOR'S WELL NO. K-799-J-99
 API WELL NO. _____
47 - 017 - 2615
 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 936' WATER SHED MORGAN'S RUN
 DISTRICT GRANT COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 75' Centerpoint SW
 SURFACE OWNER HENRY C. ZIMKA ACREAGE 47
 OIL & GAS ROYALTY OWNER HENRY C. ZIMKA LEASE ACREAGE 47
 LEASE NO. K-799-91
 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

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: 996 Watershed: Morgans Run
District: Grant County: Doddridge Quadrangle: Smithburg
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 2-29, 1980, 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.
Clarksborg, WV 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5084-5180 feet
Depth of completed well, 5439 feet Rotary / Cable Tools
Water strata depth: Fresh, 90,1340 feet; salt, None feet.
Coal seam depths: 400-405,1180-83 Is coal being mined in the area? No
Work was commenced 4-1, 1980, and completed 4-10, 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	x			30	0	0 sks	Kinds <u>None</u>
Fresh water	8 5/8 ERW	23	x			1282.70	1282.70	310 sks	
Coal	8 5/8 ERW	23	x			1282.70	1282.70	310 sks	Sizes
Intermediate									
Production	4 1/2J-55	10.5	x			5207.90	5207.90	570 sks	Depth set
Tubing									
Liners									Perforations:
									Top Bottom
									5130 5132
									5184 5187

OPEN FLOW DATA

Producing formation Alexander Pay zone depth 5130-32 5184-87 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 660 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 1900 psig (surface measurement) after 96 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

BLANKET BORED

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

Alexander Perforations: 5130-32 (2holes) 5184-87 (6 holes)
Fracturing: 250 Gal Acid:200 sks. 80/100 sand: 400 sks. 20
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	
Sand & Shale			10	50	
Sand			50	90	Damp @ 90'
Sand & Shale			90	400	
Coal			400	405	
Shale			405	500	
Sand			500	531	
Red Rock & Shale			531	1120	
Sand & Shale			1120	1180	
Coal			1180	1183	
Shale			1183	1730	Damp @ 1340'
Big Lime			1730	1800	
Big Injun			1800	1920	
Shale			1920	2070	
Weir			2070	2160	
Sand & Shale			2160	2494	
Gordon			2494	2500	
Sand & Shale			2506	3160	
Warren			3160	3234	
Sand & Shale			3234	4634	
Riley			4634	4652	
Sand & Shale			4652	4824	
Benson			4824	4844	
Sand & Shale			4844	5084	
<u>Alexander</u>			5084	5180	
Shale			5180	5439	T.D. 5439

(Attach separate sheets to complete as necessary)

J & J Enterprises, Inc.

Well Operator

By Peter Battles
Geologist

REG: Regulation 2.0216 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-99
API Well No. 47 - 017 - 2615
State County Permit

WELL TYPE: Oil ___ / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X /)
LOCATION: Elevation: 996 Watershed: Morgans Run
District: Grant County: Doddridge Quadrangle: Smithburg

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 Henry & Thelma Zimka
Address Route 2
West Union, W. Va. 26456

COAL OPERATOR None
Address

ACREAGE 47
SURFACE OWNER Henry & Thelma Zimka
Address Route 2
West Union, W. Va. 26456
ACREAGE 47

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Henry & Thelma Zimka
Address Route 2
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 St.
Clarksburg, W. Va. 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address

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 November 15, 1978, to the undersigned well operator from Henry & Thelma Zimka

[If said deed, Lease, or other contract has been recorded:]
Recorded on November 29, 1978, in the office of the Clerk of the County Commission of Doddridge County, West Virginia, in Oil & Gas Lease Book 105 at page 615. 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 obligations 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 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
1616 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

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, 5400 feet Rotary X / Cable tools /

Approximate water strata depths: Fresh, 1400 feet; salt, 0 feet.

Approximate coal seam depths: None 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		Left in well	Kinds
Conductor	11 3/4	H-40	42	X		30	0	0 sks.	None
Fresh water	8 5/8	ERW	23	X		1300	1300	300 sks.	
Coal	8 5/8	ERW	23	X		1300	1300	300 sks.	Sizes
Intermediate									
Production	4 1/2	J-55	10.5	X		5350	5350	350 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 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 11-5-80.

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

The following duties must be performed 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