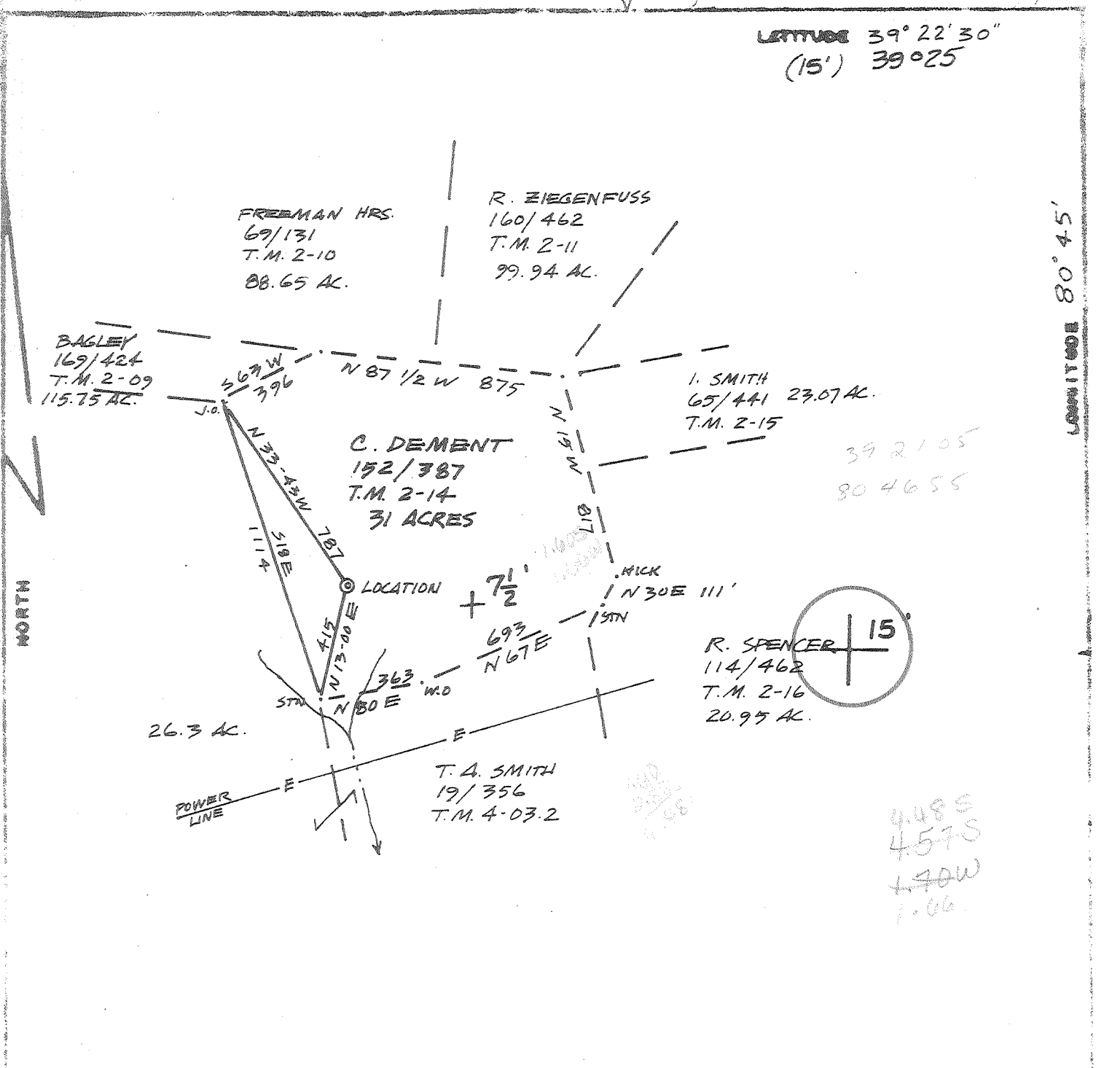


Latitude 39° 22' 30"
(15') 39° 25'



FILE NO K-811
 DRAWING NO. 1
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION TOP OF KNOB (1236)

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) Neal Hughes
 P. M. S. 632

PLACE SEAL HERE

(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM W-8
 (8-78)



DATE Aug 15 19 79
 OPERATOR'S WELL NO K-811-#1
 API WELL NO. 47-017-2470
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE LIQUID INJECTION WASTE DISPOSAL
GAS PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION 1045 WATER SHED WOLPEN RUN
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION (7 1/2) (15) EC
 SURFACE OWNER C. DEMENT ACRES 31 ACRES
 OIL & GAS ROYALTY OWNER Ray + Delroy Ash; Roy + Vera Carroll; Wood ACRES 31 AC.
 LEASE NO. K-811-#1
 PROPOSED WORK: DRILL CONVERT WELL DEEPEN REFRILL FRACTURE OR STIMULATE PLUS OR OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)

PLUS AND ABANDON CLEAN OUT AND REGRIND
 TARGET FORMATION Alexander ESTIMATED DEPTH 5500 AUG 24 1979
 WELL OPERATOR J & J Enterprises OPERATED AGENT Harry Barnett
 ADDRESS Box 48 ADDRESS Box 48
Buckhannon W.Va. 26201 Buckhannon W.V. 26201
6-6 3-3 6-6 WILBUR 92

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

WELL OPERATOR'S REPORT #2
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal
(If "Gas", Production X / Underground storage / Deep / Shallow X)
LOCATION: Elevation: 1045 Watershed: Wolfpen Run
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 X / Convert / Drill deeper / Redrill / Fracture or stimulate X
Plug off old formation / Perforate new formation
Other physical change in well (specify) _____
FEB 14 1980

PERMIT ISSUED ON August 7, 1979, OIL & GAS INSPECTOR FOR THIS STATE
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Paul Garrett
Address 321 Beech Street
Clarksburg, W. Va. 26301

GEOLOGICAL TARGET FORMATION: Alexander Depth 5260-5350 feet
Depth of completed well, 5553 feet Rotary X / Cable Tools
Water strata depth: Fresh, 1085 feet; salt, 0 feet.
Coal seam depths: 0 Is coal being mined in the area? No
Work was commenced January 9, 1980, and completed January 14, 1980

CASING AND TUBING PROGRAM

| CASING OR TUBING TYPE | SPECIFICATIONS | | | | FOOTAGE INTERVALS | | CEMENT FILL-UP OR SACKS (Cubic feet) | FLOWERS |
|-----------------------|----------------|-------|---------------|-----|-------------------|--------------|--------------------------------------|---|
| | Size | Grade | Weight per ft | New | Used | For drilling | | |
| Conductor | 11 3/4 | H-40 | 42 | X | | 30 | 0 | 0 sks. None |
| Fresh water | 8 5/8 | ERW | 23 | X | | 1578 | 1578 | 375 sks. |
| Coal | 8 5/8 | ERW | 23 | X | | 1578 | 1578 | 375 sks. None |
| Intermediate | | | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | X | | 5100 | 5100 | 585 sks. Cement set |
| Tubing | | | | | | | | |
| Liners | | | | | | | | Perforations: Top Bottom 5023 5027 2360 2368 |

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5023-5027 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Combined Final open flow, 492 Mcf/d Final open flow, _____ Bbl/d
Time of open flow between initial and final tests, 12 hours
Static rock pressure, _____ psig (surface measurement) after _____ hours shut in

[If applicable due to multiple completion--]

Second producing formation Weir Pay zone depth 2360-2368 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

08-781

DETAILS OF PERFORATED INTERVALS, FRACTURING OF WELL, TESTING, PHYSICAL LOGS, ETC.

Gunson-Perforating: 5023-5027 (14 holes).

Fracturing: 500 gals. Acid; 10,000 lbs. Sand 80/100 wire mesh; 35,000 lbs. Sand 20/40 wire mesh; 455 Bbls. Fluid.

Weir-Perforations: 2360-2368 (17 holes).

Fracturing: 500 gal. Acid; 5,000 lbs Sand 80/100 wire mesh; 30,000 lbs. Sand 20/40 wire mesh; 515 Bbls. Fluid.

ELL 103

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks Including Indication of Gas, Oil, and salt water, coal, etc. |
|------------------------|-------|--------------|----------|-------------|---|
| Fill | | | 0 | 15 | |
| Red Rock & Shale | | | 15 | 20 | |
| Shale & Sand | | | 20 | 30 | |
| Red Rock | | | 30 | 35 | |
| Sand & Shale | | | 35 | 40 | |
| Sand | | | 40 | 102 | |
| Sand & Shale | | | 102 | 169 | |
| Red Rock & Sand | | | 169 | 370 | |
| Red Rock & Shale | | | 370 | 410 | |
| Sand & Shale | | | 410 | 505 | |
| Sand | | | 505 | 550 | |
| Sandy Shale & Red Rock | | | 550 | 875 | |
| Red Rock | | | 875 | 890 | |
| Sand, Shale & Red Rock | | | 890 | 1280 | 1/2 to 3/4" Stream water @1085' |
| Sand (white) | | | 1280 | 1305 | |
| Sand & Shale | | | 1305 | 1370 | |
| Shale | | | 1370 | 1405 | |
| Sand & Shale | | | 1405 | 1500 | |
| Sand | | | 1500 | 1525 | 1/2" stream water @1520' |
| Sand & Shale | | | 1525 | 1920 | |
| Little Lime | | | - 1920 | 1950 | |
| Big Lime | | | - 1950 | 2035 | |
| Big Injun | | | 2035 | 2136 | |
| Sandy Shale | | | 2136 | 2293 | Gas @2269' 48/10-2" with water |
| Weir | | | 2293 | 2384 | |
| Sand & Shale | | | 2384 | 2445 | |
| Sandy Shale | | | 2445 | 2747 | |
| Shale | | | 2747 | 2930 | |
| Sand & Shale | | | 2930 | 2995 | |
| Shale | | | 2995 | 3070 | |
| Sand & Shale | | | 3070 | 4040 | Gas @ 4011' 22/10-2" with water |
| Shale | | | 4040 | 4135 | |

(Attach separate sheets to complete as necessary.)

J & J ENTERPRISES, INC.

Well Operator

By Peter Battles
PETER BATTLES
GEOLOGIST

NOTE: Regulation 2.02(f) 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."

017-2470

| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Including Indication of Gas and salt water, etc. |
|------------------|-------|--------------|----------|-------------|--|
| Sand & Shale | | | 4135 | 4820 | |
| Riley | | | 4820 | 4845 | |
| Sand & Shale | | | 4845 | 5023 | |
| Benson | | | 5023 | 5027 | |
| Sand & Shale | | | 5027 | 5260 | Gas @ 5058' 62/10-2" with water |
| <u>Alexander</u> | | | 5260 | 5350 | Gas @5305' 62/10-2" with water |
| Shale | | | 5350 | 5553 | |
| | | | TD | 5553 | |

~~5553
2384
3169 EXPL F~~

2730

2410

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. K-811-#1
API Well No. 47 - 017 - 2470
State County Permit

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

LOCATION: Elevation: 1045 Watershed: Wolfpen Run
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 Harry Barnett
Address P.O. Box 48
Buckhannon, W.Va. 26201

OIL & GAS ROYALTY OWNER Ray & Delsey Ash / Ron & Vera Carroll
Address Rt. 1, Star Route
Salem, W.Va. West Union, W.Va.
Acreage 31

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

SURFACE OWNER Lester & Mary Dement
Address 9103 Sudberry Road
Silver Springs, Md. 20701
Acreage 31

Name Ray Ash
Address Rt. 1
Salem, W.Va.
Name Leona Carroll
Address Star Route
West Union, W.Va.

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name None
Address
RECEIVED
AUG 17 1979

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

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 December 14, 1978, to the undersigned well operator from Ray & Delsey Ash

[If said deed, lease, or other contract has been recorded:]

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 309. 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
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

J & J Enterprises, Inc.
Well Operator

By Peter Battler
Its Geologist

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 / Cable tools /
Approximate water strata depths: Fresh, 200 feet; salt, 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' | 30' | 40 | Kinds |
| Fresh water | 8 5/8 | ERW | 23 | X | | 1200' | 1200' | 260 | |
| Coal | 8 5/8 | ERW | 23 | | | | | | Sizes |
| Intermediate | | | | | | | | | |
| Production | 4 1/2 | J-55 | 9.5 | X | | 5450' | 5450' | 400 | 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 drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well when 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.

THIS PERMIT MUST BE POSTED 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 4-17-80


Deputy Director - Oil & Gas Division

The following notice 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.

Date: , 19

By
Its