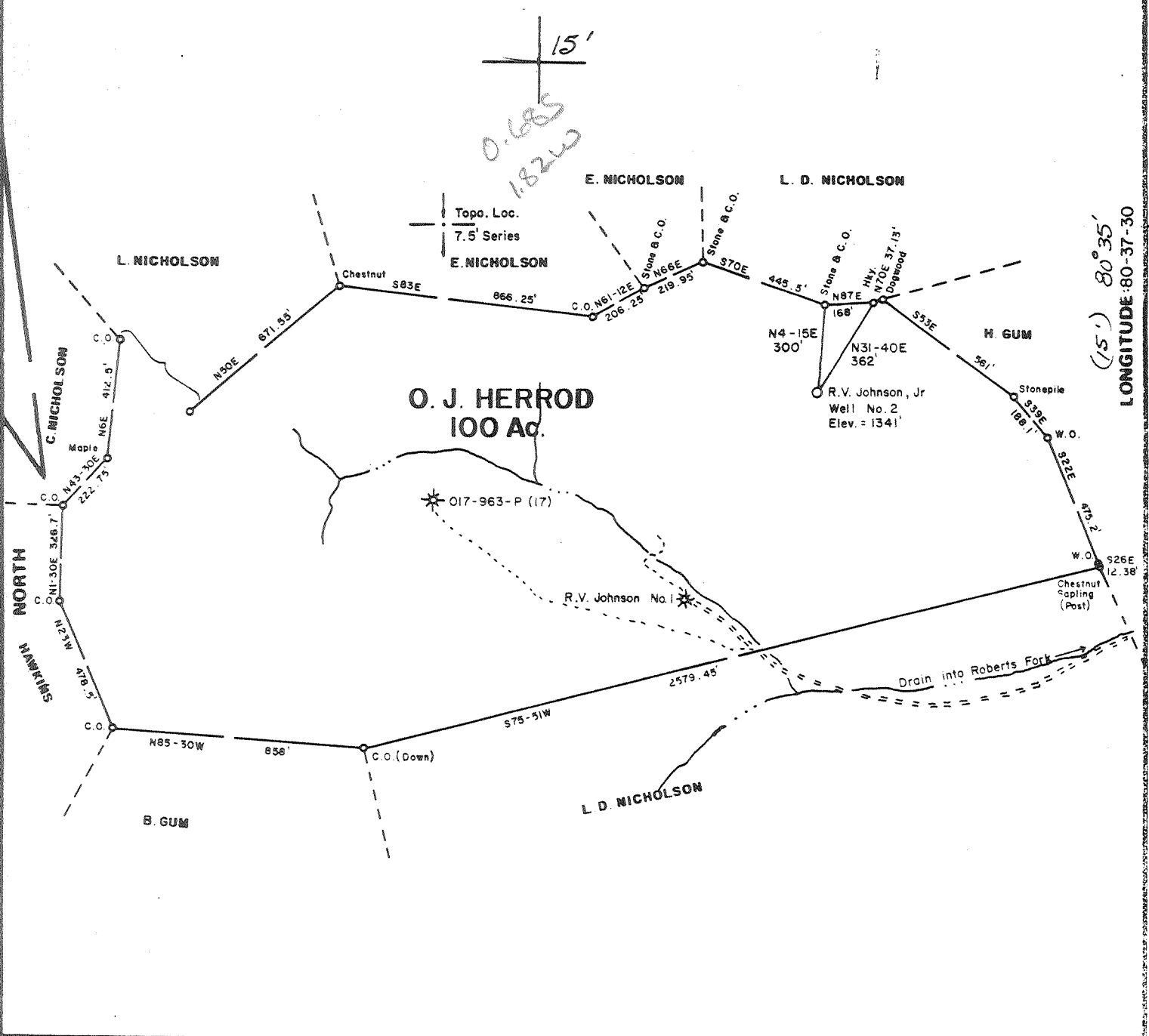


9510' West
9-11-86

Plot Card CSD

LATITUDE: 39-10-00

390' South



(15') 80°35'
LONGITUDE: 80-37-30

FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 500 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1000' NW of Location, Elev. = 1446'

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) Mark C. Echard
 MARK C. ECHARD

R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE SEPTEMBER 6, 1980
 OPERATOR'S WELL NO. THREE
 API WELL NO. 47-017-2825
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

Cancelled

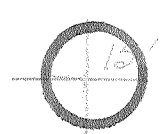
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1341' WATER SHED ROBERTS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' VADIS 15'
 SURFACE OWNER O.J. HERROD, JR. ACREAGE 100
 OIL & GAS ROYALTY OWNER O.J. HERROD, SR. LEASE ACREAGE 100
 LEASE NO. _____
 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 GANTZ ESTIMATED DEPTH 2950'
 WELL OPERATOR RUSSELL V. JOHNSON, Jr. DESIGNATED AGENT GAI SMYTHE
 ADDRESS DRAWER "L" ADDRESS DRAWER "L"
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

MAR 01 1982

9-11-80

9510' West

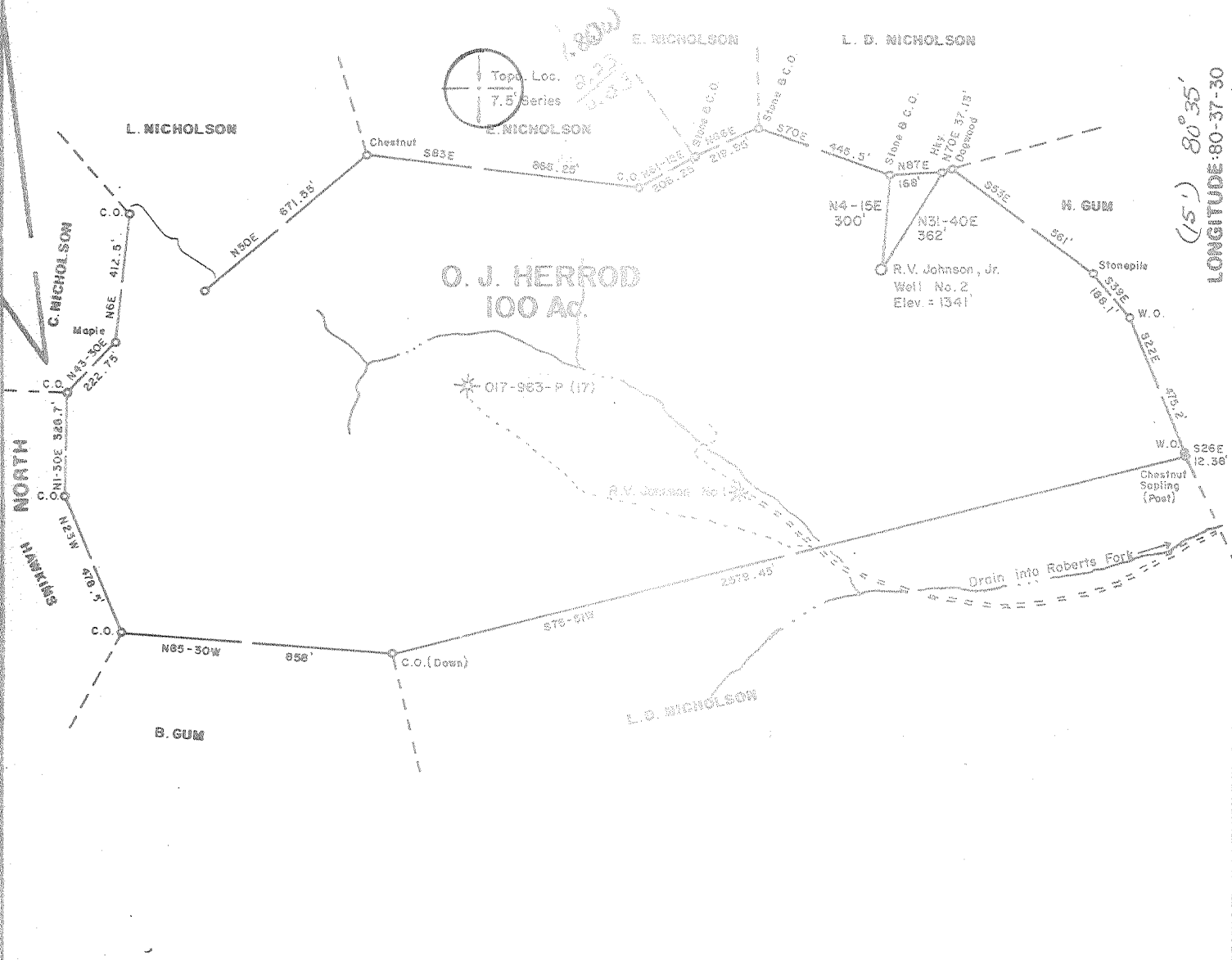
LATITUDE: 39-10-00



0695
409W
403

NORTH

(15) 80°35'
LONGITUDE: 80-37-30



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 500 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1000' NW of Location, Elev. = 1446'

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. *Mark C. Echard*
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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

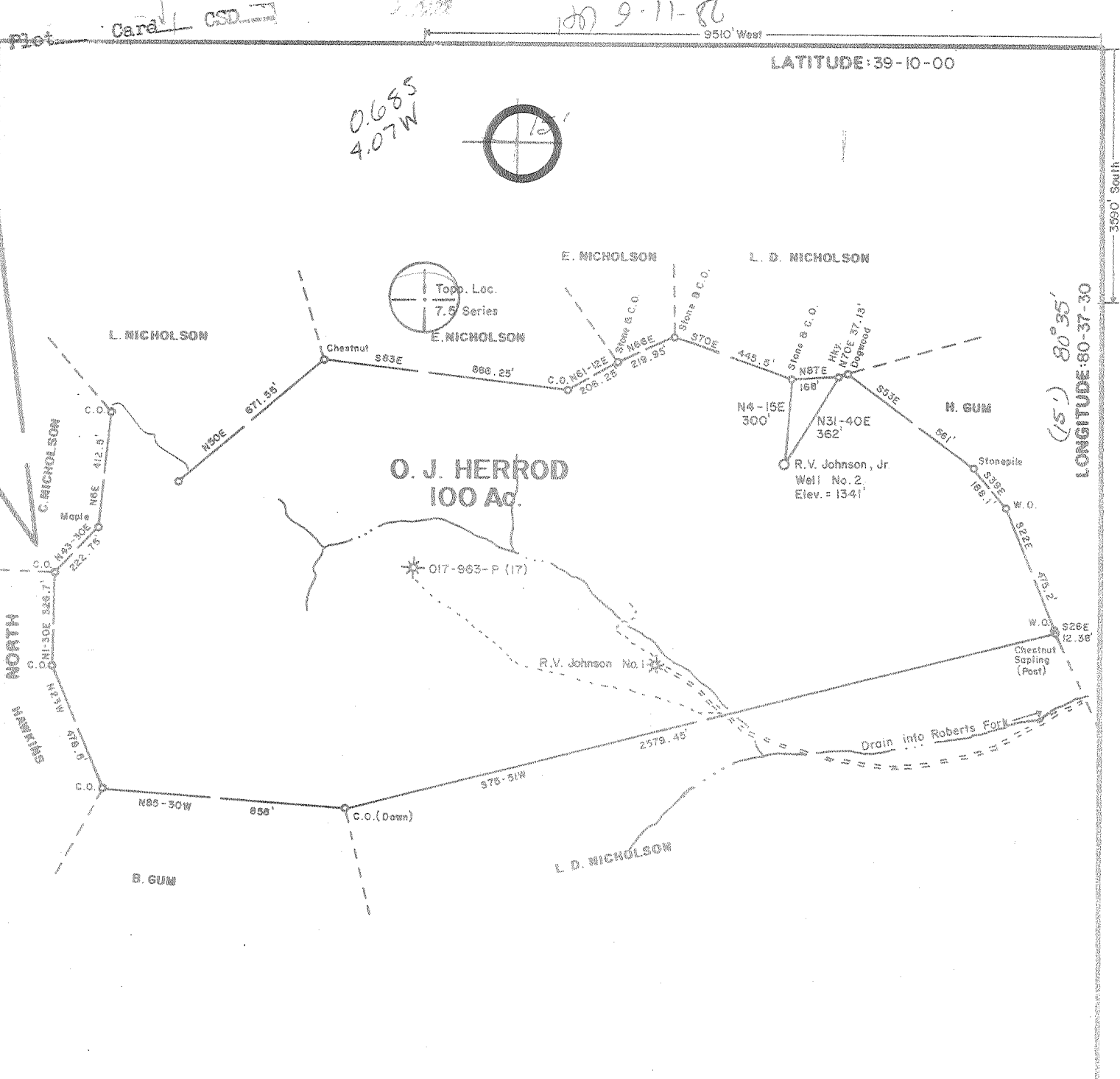


DATE SEPTEMBER 6, 1980
 OPERATOR'S WELL NO. TWO
 API WELL NO. 47-017-2825
 STATE WEST VIRGINIA COUNTY DODDRIDGE PERMIT 161C

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1341' WATER SHED ROBERTS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' VAD15 161C
 SURFACE OWNER O.J. HERROD, JR. ACREAGE 100
 OIL & GAS ROYALTY OWNER O.J. HERROD, JR. LEASE ACREAGE 100
 LEASE NO. _____
 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 GANTZ ESTIMATED DEPTH 2950'
 WELL OPERATOR RUSSELL V. JOHNSON, Jr. DESIGNATED AGENT GAI SMYTHE
 ADDRESS DRAWER "L" GLENVILLE, W.V. 26351 ADDRESS DRAWER "L" GLENVILLE, W.V. 26351

SEP 25 1980



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 500 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Top Knob 1000' NW of Location, Elev. = 1446'

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. Mark C. Echard
 (SIGNED) MARK C. ECHARD
 R.P.E. _____ L.L.S. 490

PLACE SEAL HERE

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



DATE SEPTEMBER 6, 1980
 OPERATOR'S WELL NO. THREE
 API WELL NO. _____
47 - 017 - 2825
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1341' WATER SHED ROBERTS FORK
 DISTRICT NEW MILTON COUNTY DODDRIDGE
 QUADRANGLE NEW MILTON 7.5' VADIS 15'
 SURFACE OWNER O.J. HERROD, JR. ACREAGE 100
 OIL & GAS ROYALTY OWNER O.J. HERROD, SR. LEASE ACREAGE 100
 LEASE NO. _____
 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 GANTZ ESTIMATED DEPTH 2950'
 WELL OPERATOR RUSSELL V. JOHNSON, Jr. DESIGNATED AGENT GAI SMYTHE
 ADDRESS DRAWER "L" ADDRESS DRAWER "L"
GLENVILLE, W.V. 26351 GLENVILLE, W.V. 26351

OCT 17 1980

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. O.J. Herrod #2
API Well No. 47-017-2825
State County Perm

WELL TYPE: Oil X / Gas X /
(If "Gas", Production X / Underground storage ___ / Deep ___ / Shallow X)
LOCATION: Elevation: 1341' Watershed: Roberts Fork
District: New Milton County: Doddridge Quadrangle: New Milton 7.5'

WELL OPERATOR Russell V. Johnson, Jr.
Address P.O. Drawer "L"
Glenville, WV 26351

DESIGNATED AGENT Gai L. Smythe
Address P.O. Drawer "L"
Glenville, WV 26351

OIL & GAS ROYALTY OWNER O.J. Herrod et al
Address _____

COAL OPERATOR N/A
Address: _____

Acreage 100 Ac.

COAL OWNER(S) WITH DECLARATION ON RECORD:

SURFACE OWNER O.J. Herrod, Jr.
Address _____

Name N/A
Address _____

Acreage 100 Ac.

Name N/A
Address _____

FIELD SALE (IF MADE) TO:
Name N/A
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
Name N/A
Address _____

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech Street
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 X / dated _____, 19____, _____ assignment
undersigned well operator from _____
[If said deed, lease, or other contract has been recorded:]

Recorded on _____, 19____, in the office of the Clerk of the County Commission of _____ County, West Virginia, in _____ Book _____ at page _____. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___ /
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.

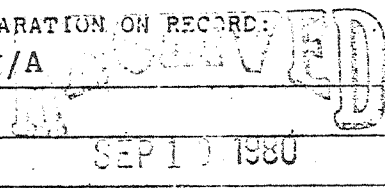
Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines 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

MARKET BOND

Russell V. Johnson, Jr.
Well Operator

By Gai L. Smythe
Its Partner



PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DILLING CONTRACTOR (IF KNOWN) unknown

Address _____

GEOLOGICAL TARGET FORMATION, Gantz

Estimated depth of completed well, 2950 feet Rotary X / Cable tools _____/

Approximate water strata depths: Fresh, 165 feet; salt, _____ feet.

Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ No X

HOUSING AND TUBING PROGRAM

HOUSING 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			X					Kinds
Fresh water	8-5/8		20.00	X		1200	1200	340 sks	Sizes
Intermediate									
Production	4 1/2		9.5	X			2950	115 sks	Depths set
Tubing									Perforations:
Finers									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 5-12-81

[Signature]
Deputy Director - Oil & Gas Division

The following waiver 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 _____