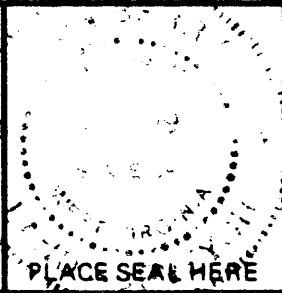


FILE NO. 81-1140-2
 DRAWING NO. 1
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:2500
 PROVEN SOURCE OF ELEVATION C. and G.S. B.M.
"C-136" 766.94'

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) BA Burt
 R.P.E. _____ L.L.S. 699



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



DATE 21 NOV. 1981
 OPERATOR'S WELL NO. STARKEY #1
 API WELL NO. _____
47 - 095 - 0972
 STATE COUNTY PERMIT

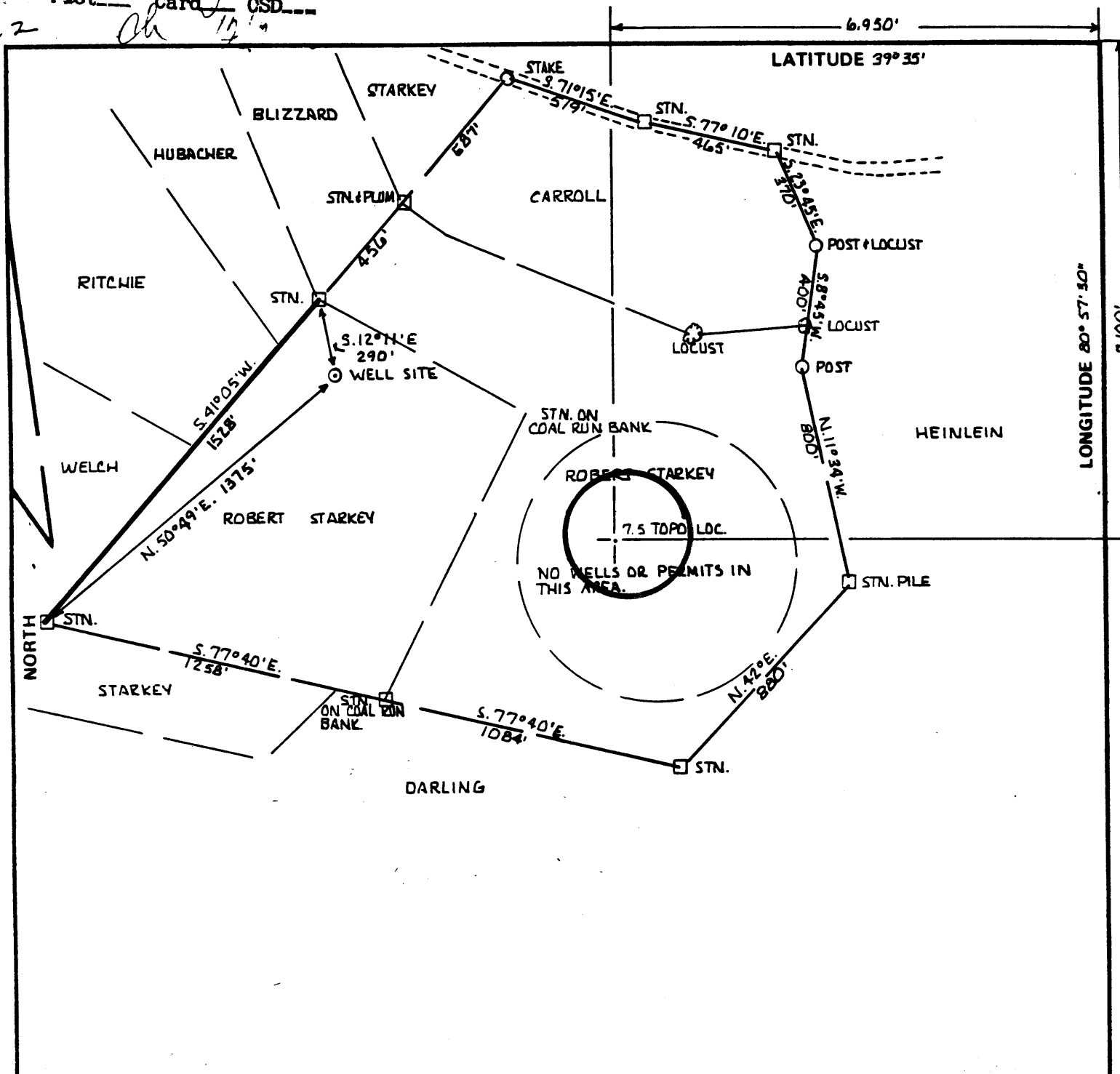
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

CANCELLED

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1047' WATER SHED COAL RUN
 DISTRICT LINCOLN COUNTY TYLER COUNTY
 QUADRANGLE PADEN CITY
 SURFACE OWNER ROBERT STARKEY ACREAGE 20 ACRES
 OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 99 3/4 ACRES
 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 UPPER DEVONIAN HAMPSHIRE FORMATION ESTIMATED DEPTH 3812
 WELL OPERATOR FREDERICK PETROLEUM DESIGNATED AGENT JAMES F. DOAN
 ADDRESS RT # 1 MARIETTA, OHIO ADDRESS P.O. Box 31 MIDDLEBOURNE, W.V.

SEP 28 1982



FILE NO. 81-1140-2
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1:50000
 PROVEN SOURCE OF ELEVATION C. and G.S. B.M.
"C-136" 766.94'

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) _____
 R.P.E. _____ L.L.S. _____

PLACE SEAL HERE

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



DATE 2/10/81, 1981
 OPERATOR'S WELL NO. _____
 API WELL NO. _____
47 - 095 - 0972
 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 1047' WATER SHED COAL RUN
 DISTRICT LINCOLN COUNTY TYLER COUNTY
 QUADRANGLE PADEN CITY New Martinsville 15 SW
 SURFACE OWNER ROBERT STARKEY ACREAGE 20 ACRES
 OIL & GAS ROYALTY OWNER JAMES F. DOAN LEASE ACREAGE 99 3/4 ACRES
 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 UPPER DEVONIAN HAMPSHIRE FORMATION ESTIMATED DEPTH 3812
 WELL OPERATOR FREDERICK PETROLEUM DESIGNATED AGENT JAMES F. DOAN
 ADDRESS Rt. # 1 MARIETTA, OHIO ADDRESS P.O. Box 31 MIDDLEBOURNE, W.V.

DEC 23 1981

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 1047 Watershed: Coal Run
District: Lincoln County: Tyler Quadrangle: Paden City

WELL OPERATOR FREDERICK PETROLEUM
Address Rt. 1
Marietta, Ohio 45750

DESIGNATED AGENT JAMES F. DOAN
Address P. O. Box 31
Middlebourne, WV 26149

OIL AND GAS ROYALTY OWNER James F. Doan
Address P. O. Box 31
Middlebourne, WV 26149
Acreage 99-3/4

COAL OPERATOR
Address

SURFACE OWNER Robert Starkey
Address Rt. 2 Box 411
Sistersville, WV 26175
Acreage 20

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME James F. Doan
Address

FIELD SALE (IF MADE) TO:
NAME
Address

NAME
Address

COAL LESSEE WITH DECLARATION ON RECORD:
NAME none
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Phillip Tracey
Address Alma, WV
Telephone 758-4573

RECEIVED

DEC 7 1981

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease xxx / other contract / dated OCT. 19, 1981, to the undersigned well operator from James F. Doan.

(If a deed, lease, or other contract has been recorded:
Recorded on October 22, 1981, in the office of the Clerk of County Commission of Tyler County, West Virginia, in 234 Book at page 196. A permit is requested as follows:

PROPOSED WORK: Drill xxx / 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 corrections 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 receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOLOGICAL LOGS DIRECTLY TO:

BLANKET BOND

Well Operator

WEST VIRGINIA OIL AND GAS
REGENERATION COMMISSION
105 Washington St., E.
Martinsburg, WV 25311
Telephone - 304/348-3092

By:
Its:

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Shale
Estimated depth of completed well 3,812 feet. Rotary xxx / Cable tools /
Approximate water strata depths: Fresh, feet; salt, feet.
Approximate coal seam depths:
Is coal being mined in this area: Yes / No xxx /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor								Kinds
Fresh water	8-5/8					1000	1000	To Surface
Coal								Sizes
Intermed.								
Production Tubing	4-1/2							440 cement Depths set
Liners								or as reqd. by rule 15.01 Perforations:
								Top Bottom

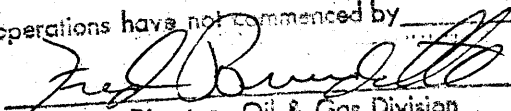
NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security 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.

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 8-10-82


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: _____