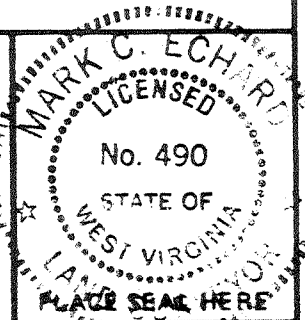


FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Junction of roads 1000'
 SW of Location ELEV. = 869'

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



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



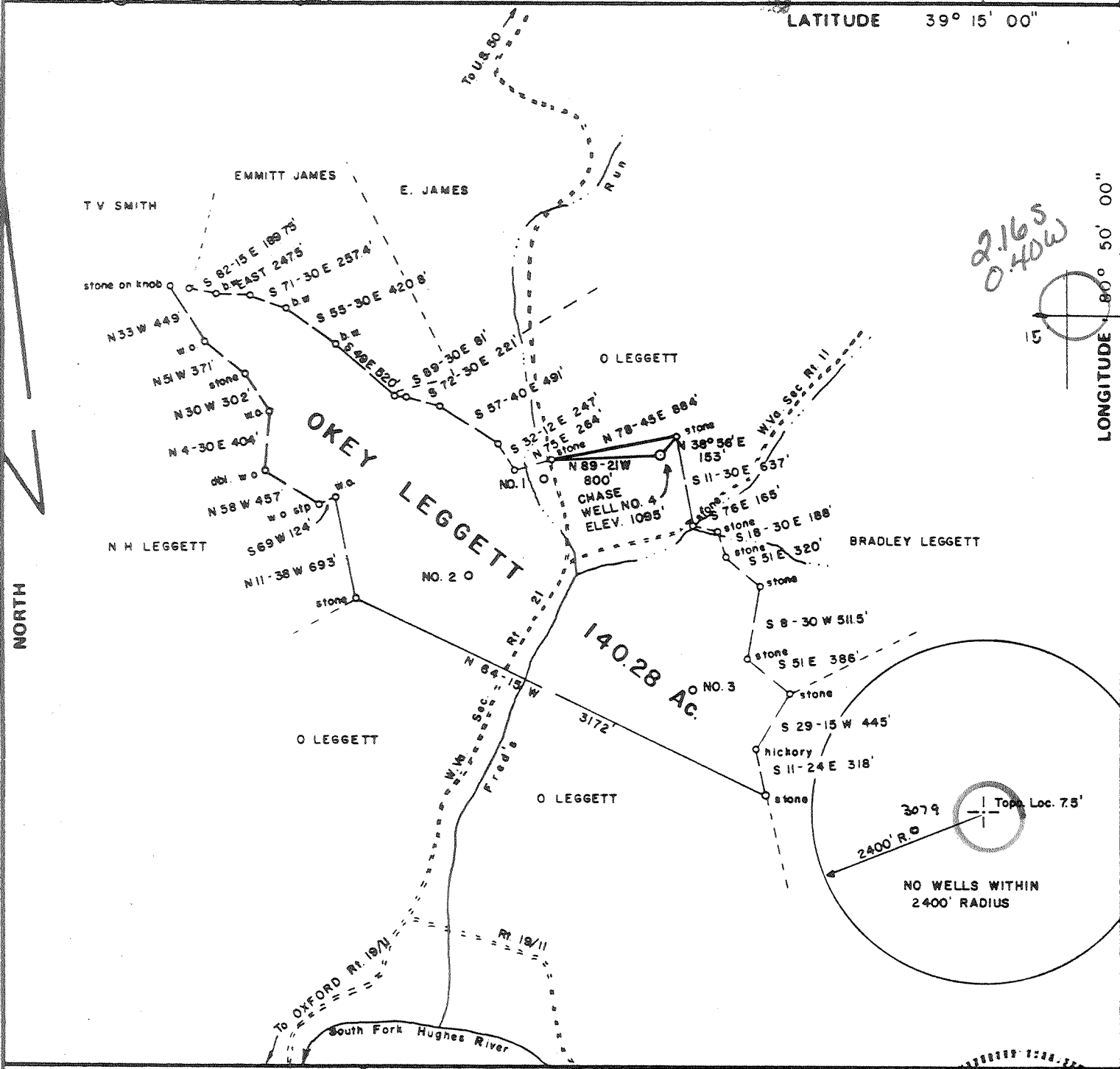
DATE FEBRUARY 15, 1982
 OPERATOR'S WELL NO. FOUR
 API WELL NO. 47-017-3091
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

CANCELLED

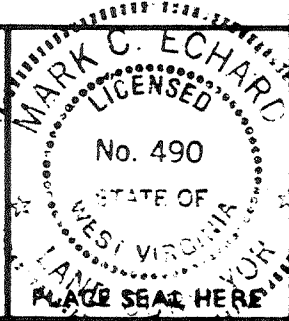
WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1090' WATER SHED FRED'S RUN
 DISTRICT SOUTH WEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5'
 SURFACE OWNER OKEY LEGGETT ACREAGE 140.28
 OIL & GAS ROYALTY OWNER OKEY LEGGETT LEASE ACREAGE 140.28
 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 MARCELLUS SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC DESIGNATED AGENT MR ALTON SKINNER
 ADDRESS P.O. BOX 297 ADDRESS P.O. BOX 369
 GLENVILLE, W.Va. 26355 GLENVILLE, W.Va. 26355

SEP 4 1987



FILE NO. _____
 DRAWING NO. _____
 SCALE 1 inch = 1000 feet
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Junction of roads 1000'
 SW of Location ELEV. = 869'

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



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



DATE FEBRUARY 15, 1982
 OPERATOR'S WELL NO. FOUR
 API WELL NO. 47-017-3091
 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 1090' WATER SHED FRED'S RUN
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 75' Holdbrook 151
 SURFACE OWNER OKEY LEGGETT ACREAGE 140.28
 OIL & GAS ROYALTY OWNER OKEY LEGGETT LEASE ACREAGE 140.28
 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 MARCELLUS SHALE ESTIMATED DEPTH 5990'
 WELL OPERATOR CHASE PETROLEUM, INC. DESIGNATED AGENT MR. ALTON SKINNER
 ADDRESS P.O. BOX 297 ADDRESS P.O. BOX 369
 GLENVILLE, W.Va. 26351 GLENVILLE, W.Va. 26351

APR 6 1982



Well No. Okey Leggett #4
Farm Okey Leggett
API # 47-017-3091
Date March 18, 1982

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

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 1090 Watershed: Fred's Run
District: Southwest County: Doddridge Quadrangle: Oxford 7.5

WELL OPERATOR Chase Petroleum, Inc.
Address P.O. Drawer 369
Glenville, WV 26351

DESIGNATED AGENT Alton Skinner
Address P.O. Drawer 369
Glenville, WV 26351

OIL AND GAS ROYALTY OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OPERATOR none
Address _____

SURFACE OWNER Okey Leggett
Address Route 1
West Union, WV 26456
Acreage 141

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME Lessor (if any)
Address _____
NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME uncommitted
Address _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME none
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Stephen Casey
Address Route 2, Box 232 D
Jane Lew, WV 26378
Telephone 884-7470

RECEIVED
MAR 22 1982
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 x / other contract ___ / dated 9/23, 1981, to the undersigned well operator from Okey Leggett.

(If said deed, lease, or other contract has been recorded:)

Recorded on 9/24, 1981, in the office of the Clerk of County Commission of Doddridge County, West Virginia, in Lease 122 Book at page 95. 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 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 GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Chase Petroleum, Inc.
Well Operator
By: Alton Skinner
Its: Agent

MARGRET BURN

(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) unknown

Address _____

GEOLOGICAL TARGET FORMATION Marcellus Shale (Devonian)
Estimated depth of completed well 5990 feet. Rotary x / Cable tools ___ /
Approximate water strata depths: Fresh, 30 feet; salt, ----- feet.
Approximate coal seam depths: none
Is coal being mined in this area: Yes ___ / No x /

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 Drilling | Left in Well | | |
| Conductor | 11 3/4 | | | | x | 30 | -0- | | Kinds |
| Fresh water | | | | | | | | | |
| Coal | | | | | | | | | Sizes |
| Intermed. | 8 5/8 | | 23# | x | | 1400 | 1400 | CTS | |
| Production Tubing | 4 1/2 | | 10.5# | x | | 5940 | 5940 | 700 SKS | Depths set |
| 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 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,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 11-26-82
BY [Signature]

[Signature]

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 regularions.

Date: _____, 19 ____.

By: _____