

FILE NO. 81-51

DRAWING NO. 2

SCALE 1" = 500'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION BM 673

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) Neal Hughes

R.P.E. _____ L.L.S. 632

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FORM IV-6 (8-78)

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____

(IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____

LOCATION: ELEVATION 676' WATER SHED WORTHINGTON CREEK

DISTRICT UNION COUNTY WOOD

QUADRANGLE VALLEY MILLS MARRETTA 15' SC

SURFACE OWNER R. RALSTON ACREAGE 100

OIL & GAS ROYALTY OWNER GRANVILLE RALSTON LEASE ACREAGE 630

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 DEVONIAN SHALE ESTIMATED DEPTH 4800'

WELL OPERATOR SANTA FE DRILLING DESIGNATED AGENT ROBERT CORNELL

ADDRESS P.O. BOX 1468 ADDRESS SAME

PARKERSBURG, W.V. 26101



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

DATE DEC. 23, 19 81

OPERATOR'S WELL NO. 2

API WELL NO. 47-107-1200

STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

Oil and Gas Division

JAN 6 - 1982

OIL AND GAS WELL PERMIT APPLICATION

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

Surface Owner R. Ralston
Address _____
Mineral Owner Granville Ralston
Address Parkersburg, WV 26101
Coal Owner N/A
Address _____
Coal Operator N/A
Address _____

DATE January 5, 1982
Company Santa Fe Drilling Corporation
Address P.O. Box 1468, Parkersburg, WV 26101
Farm Ralston Acres 630
Location (waters) Worthington Creek
Well No. 2 Elevation 676'
District Union County Wood
Quadrangle Valley Mills

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 9-7-82.

J. J. [Signature]
Deputy Director, Oil & Gas Division

INSPECTOR
TO BE NOTIFIED Deo Mace
ADDRESS Rt. 1 Box 65, Sand Ridge, WV 25274
PHONE 655-8693

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated January 10 19 81 by Julian K. Rolston made to Santa Fe Drilling Corp. and recorded on the 18 day of June 19 81 in Wood County, Book 756 Page 514

NEW WELL DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours, Santa Fe Drilling Corporation
(Sign Name) [Signature]
Well Operator
P.O. Box 1468
Street
Parkersburg,
City or Town
West Virginia 26101
State

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-107-1200 _____ PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

BLANKET BOND

THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME Gene Stalnaker NAME Robert Cornell
 ADDRESS Glenville, WV ADDRESS P.O. Box 1468, Parkersburg, WV 2610
 TELEPHONE 462-7092 TELEPHONE 422-2121
 ESTIMATED DEPTH OF COMPLETED WELL: 4800 ft. ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Devonian Shale
 TYPE OF WELL: OIL _____ GAS _____ COMB. X STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	300 ft	300 ft	90 sks or to surface
7			
5 1/2			
4 1/2		4800 ft	500 sks
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 50 FEET N/A SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS N/A
 IS COAL BEING MINED IN THE AREA? N/A BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title