

1-6-82 Plot

Card CSD

LATITUDE 39° 20'

LONGITUDE 81° 22' 30"

J. ROLSTON
T.M. 390 - A
100 AC.

E. DULANEY
T.M. 390 - B
83.31 AC.

E. GREEN
T.M. 390 - D
35 AC.

G. MODESITT
T.M. 390 - E

J. LOWERS
T.M. 390 - C
100 AC.

GRACE BAPTIST
CHURCH
T.M. 390 - B-2
16.69 AC.

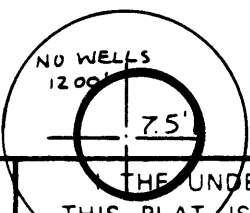
2.785
4.03W

ROUTE 5113

NORTH

14,600'

FILE NO. 31-51
DRAWING NO. 3
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION BM 678



2.785
1.800

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)



DATE DEC. 22, 19 81
OPERATOR'S WELL NO. 3
API WELL NO. 47 - 107 - 1201
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 900' WATER SHED WORTHINGTON CREEK
DISTRICT UNION COUNTY WOOD
QUADRANGLE VALLEY MILLS Marietta 15' SC
SURFACE OWNER EDWARD DULANEY ACREAGE 83.31
OIL & GAS ROYALTY OWNER GRANVILLE ROLSTON 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.VA. 26101



RECEIVED

MAR 20 1985

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

OIL & GAS DIVISION
DEPT. OF MINES

Quadrangle Valley Mills
Permit No. 47-107-1201

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. X _____
Water Flood _____ Storage _____
Disposal _____ (Kind) _____

Company Santa Fe Drilling
Address P.O. Box 1468 - Parkersburg, W. Va.
Farm G. Rolston Acres 630
Location (waters) Worthington Creek
Well No. Three Elev. 900
District Union County Wood
The surface of tract is owned in fee by Edward Dulaney
Address Ogden, W. Va.
Mineral rights are owned by Granville Rolston
Address Ogden, W. Va.
Drilling Commenced 3-3-82
Drilling Completed 3-10-82
Initial open flow (267) 500 cu. ft. (8) bbls.
Final production _____ cu. ft. per day _____ bbls.
Well open 4 hrs. before test 300 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	960	960	225 sks
7			
5 1/2			
4 1/2		4,170	350 sks
3			
2			
Liners Used			

Well treatment details:

Attach copy of cementing record.

This well was first perforated from 3,995 - 4,003; 4,013-4,028; and 4,089 - 4,101; 4,112-4,126. An inhibited water-sand frac was done by NOWCO using Polydrill 1330 as an inhibitor. The frac was (unsuccessful). A plug was set at 3,700 ft. Well was perforated with 8 shots from 3,580 to 3,588 and 22 shots from 3,612 to 3,634. A N/2 frac was done by Dowell using 800,000 scf of N/2 at 42,000scf/minute.

use these

Huron

Coal was encountered at N/A Feet N/A Inches
Fresh water _____ Feet _____ Salt Water _____ Feet _____
Producing Sand Warren Shale Depth 3,530 to 3,634

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Shale			1906	2230		
Berea Sand			2230	2244	Gas and Oil trace	
Shale			2244	2574		
Gordon Sand			2574	2616	Gas - Oil in pit	
Shale			2616	2970		
1st Warren			2970	3120	Gas	
Shale			3120	3580		
2nd Warren			3580	3634	Gas and Oil	
Shale			3634	3850		
Brown Shale			3850	3860	Oil flowing in pit	
Shale			3860	<u>4172</u>		

Huron @ TD

TD

APR 01 1985

4172
900
3272

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	• Remarks

Date 5/ 19 85

APPROVED [Signature] (DWDF)

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

JAN 6 - 1982

Oil and Gas Division

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE January 5, 1982

Surface Owner Edward Dulaney

Company Santa Fe Drilling Corporation

Address _____

Address P.O. Box 1468, Parkersburg, WV 26101

Mineral Owner Granville Rolston

Farm Rolston Acres 630

Address _____

Location (waters) Worthington Creek

Coal Owner N/A

Well No. 3 Elevation 900'

Address _____

District Union County Wood

Coal Operator _____

Quadrangle Valley Mills

Address _____

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.

INSPECTOR

TO BE NOTIFIED Deo Mace

ADDRESS Rt. 1 Box 65, Sand Ridge, WV 25274

PHONE 655-8693

J. Murphy
Deputy Director, Oil & Gas Division

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 1981 by Julian K. Rolston made to Santa Fe Drilling Corp. and recorded on the 18 day of June 1981, 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) Robert Carroll
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.

47-107-1201

PERMIT NUMBER

BLANKET WORD

"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 _____

Survey

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 261
 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	DEPTH IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8	<u>500 ft</u>	<u>500</u> 300 ft	50 sks or to surface
7			
5 1/2			
4 1/2		<u>4800 ft</u>	<u>500 sks</u>
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 130 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