



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1:200'
 PROVEN SOURCE OF ELEVATION USGS BM 724'

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) Paul K. Marshall
 R.P.E. _____ L.L.S. 580

PLACE SEAL HERE

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



DATE JANUARY 19, 19 83
 OPERATOR'S WELL NO. WHITE #1
 API WELL NO. 47 - 073 - 1593
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

FEB 07 1983

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 833' WATER SHED SHARPS RUN
 DISTRICT JEFFERSON COUNTY PLEASANTS
 QUADRANGLE SCHULTZ (7.5') St. Marys 15' SW
 SURFACE OWNER SAM WHITE ACREAGE 12
 OIL & GAS ROYALTY OWNER SAM WHITE LEASE ACREAGE 12
 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 5995'
 WELL OPERATOR French Creek Development DESIGNATED AGENT PAT TANZEY
 ADDRESS 214 WASHINGTON AVE. ADDRESS 214 WASHINGTON AVE.
ST. MARYS, W.VA. 26170 ST. MARYS, W.VA. 26170

RECEIVED

MAR 23 1983



OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Date March 14, 1983

Operator's

Well No. White # 1

Farm Sam White

API No. 47 - 073 - 1593

IV-35
(Rev 8-81)

State of West Virginia

Department of Mines

Oil and Gas Division

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil XX / Gas XX/ Liquid Injection / Waste Disposal /
(If "Gas," Production XX / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 833 Watershed Sharps Run

District: Jefferson County Pleasants Quadrangle Schultz

COMPANY French Creek Development, Inc.

ADDRESS 214 1/2 Washington St., St. Marys

DESIGNATED AGENT Patsy Tanzey

ADDRESS 214 1/2 Washington St., St. Marys

SURFACE OWNER Sam White

ADDRESS 1205 Edgedale Dr. St. Marys

MINERAL RIGHTS OWNER Sam White

ADDRESS Same

OIL AND GAS INSPECTOR FOR THIS WORK Robert

Lowther ADDRESS Middleborne, WV

PERMIT ISSUED February 4, 1983

DRILLING COMMENCED February 20, 1983

DRILLING COMPLETED February 24, 1983

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cord.			
13-10"	251	251	110 sks
9 5/8			
8 5/8	1200	1200	250 sks
7			
5 1/2			
4 1/2	4978	4978	400 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marchelus Depth 5000 feet

Depth of completed well 4978 feet Rotary XX / Cable Tools

Water strata depth: Fresh 90 feet; Salt N/A feet

Coal seam depths: N/A Is coal being mined in the area? N/A

OPEN FLOW DATA

Producing formation Shale Pay zone depth 4100-3300 feet

Gas: Initial open flow 100 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 100 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 600 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d

Final open flow Mcf/d Oil: Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

PLAS, 1593

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Hydro

Perforated 3488 - 3500 40 perfs, 3618-3628 10 perfs, 3786-3796 10 perfs.
4355-4365 10 perfs. treated with 1000 GAL HCL ACID 15%, 1,900,000
 SCF N²,

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Injun			1700	1750	
Berea			2010	2015	
Forty Foot			2120	2128	show gas
Fifty Foot			2230	2250	show gas and oil
Gordon			2380	2390	show gas
Fifth Sand			2500	2520	show oil
Fourth Sand			2615	2620	show oil
Devonian Shale			2621	(TD)	oil and gas to TD

TR 4978 Rhinestreet @ TD

4978	4355
2015	2015
<u>2963</u>	<u>2340</u>

(Attach separate sheets as necessary)

FRENCH CREEK DEVELOPMENT, INC.

Well Operator

By: [Signature] President

Date: March 14, 1983

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: Feb. 2, 19 83
2) Operator's Well No. White # 1
3) API Well No. 47 07 State _____ County _____ Permit _____

DRILLING CONTRACTOR: _____

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES, OIL AND GAS DIVISION

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil _____ / Gas _____
B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: _____ Watershed: _____
District: _____ County: _____ Quadrangle: _____
- 6) WELL OPERATOR _____ Address _____
11) DESIGNATED AGENT _____ Address _____
- 7) OIL & GAS ROYALTY OWNER _____ Address _____
12) COAL OPERATOR _____ Address _____
Acreage _____
- 8) SURFACE OWNER _____ Address _____
13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Name _____ Address _____
Acreage _____ Name _____ Address _____
- 9) FIELD SALE (IF MADE) TO: _____ Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name _____ Address _____
14) COAL LESSEE WITH DECLARATION ON RECORD:
Name _____ Address _____
- 15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate _____
Plug off old formation _____ / Perforate new formation _____
Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, _____
- 17) Estimated depth of completed well, _____ feet
- 18) Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.
- 19) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No _____

20) CASING AND TUBING PROGRAM

CASING 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										Kinds
Fresh water										
Coal										Sizes
Intermediate										
Production										Depths set
Tubing										
Liners										Perforations:
										Top Bottom

21) EXTRACTION RIGHTS

Check and provide one of the following:

- Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) 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.

Notary: _____
My Commission Expires _____

Signed: _____
Its: _____

OFFICE USE ONLY
DRILLING PERMIT

Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires _____ unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
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Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.