



- a.) L. Smith, T.M. 3 P12, 3ac.
- b.) C. White, T.M. 3 P5, 5.36ac.
- c.) R. Haught, T.M. 3 P6, 6.56ac.
- d.) C. White, T.M. 3 P7, 6.52ac.
- e.) L. Northcraft, T.M. 3 P8, 5.5ac.
- f.) W. Michael, T.M. 3 P2.1, 37ac.
- g.) L. Northcraft, T.M. 3 P3, 35.95ac.
- h.) C. White, T.M. 3 P4, 4.05ac.
- k.) L. Northcraft, T.M. 4 P1, 112.24ac.
- m.) J. White, T.M. 4 P64, 66.26ac

FILE NO. 82-1145-2  
 DRAWING NO. 1  
 SCALE 1"=1,000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION Road Intersection

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) Born Bemy  
 R.P.E. \_\_\_\_\_ L.L.S. 699

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE Jan. 28, 19 83  
 OPERATOR'S WELL NO. #2  
 API WELL NO. 47 - 095 - 1021  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL  GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_  
 LOCATION: ELEVATION 975' WATER SHED Branch of Buffalo Run  
 DISTRICT Union COUNTY Tyler  
 QUADRANGLE New Matamoras N15' SE  
 SURFACE OWNER J. White ACREAGE 66.26  
 OIL & GAS ROYALTY OWNER John V. Brannon LEASE ACREAGE 20  
 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 4600' 6-6 Adams (028)  
 WELL OPERATOR J.D. Parsons DESIGNATED AGENT Judy Parsons (252)  
 ADDRESS P.O. Box 94 ADDRESS P.O. Box 94  
Williamstown W.V. 26187 Williamstown W.V. 26187

APR 7 1983  
OIL & GAS DIVISION  
DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date APRIL 6 1983  
Operator's Well No. TWO  
Farm FRIENDSHIP  
API No 47-095-1021

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 975 Watershed BUFFALO RUN  
District: UNION County TYLER Quadrangle NEW MATAMORAS

COMPANY J. D. PARSONS & Co INC.  
ADDRESS Box 94 WILLIAMSTOWN WV  
DESIGNATED AGENT JODY PARSONS  
ADDRESS Box 94 WILLIAMSTOWN WV 26187  
SURFACE OWNER J. WHITE  
ADDRESS FRIENDLY WEST Va.  
MINERAL RIGHTS OWNER J. J. BRANNON  
ADDRESS Box 37 BRIDGEPORT WEST Va 26380  
OIL AND GAS INSPECTOR FOR THIS WORK R  
LOWTHER ADDRESS MIDDLE BOURNE  
PERMIT ISSUED FEB /83  
DRILLING COMMENCED FEB 23 /83  
DRILLING COMPLETED MAR 8 /83  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8	270	270	100
8 5/8			
7	1658	⊖	⊖
5 1/2			
4 1/2	4152	4152	290
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION DEVONIAN SHALE Depth 4600 feet  
Depth of completed well 4460 feet Rotary  / Cable Tools \_\_\_  
Water strata depth: Fresh 80 feet; Salt 900 feet  
Coal seam depths: 400 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth 3401-3909 feet  
Gas: Initial open flow 130 Mcf/d Oil: Initial open flow ⊖ Bbl/d  
Final open flow 80 Mcf/d Final open flow 35 Bbl/d  
Time of open flow between initial and final tests 48 hours  
Static rock pressure 1020 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

TYLER 1021

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

PERFORATIONS

*Huron* 3407-3909, 25 SHOTS

FRACTURE TREATMENT

50,000 LBS 20/40 SAND

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
CLAY + SANDSTONE			0	120	No FRESH WATER REPORTED
SANDSTONE			120	180	
RED SHALE			180	240	
GREY SHALE			240	265	
SILTSTONE			265	280	
BROWN SHALE			280	330	
RED SHALE			330	390	No COAL IN SAMPLES
GREY SILTSTONE			390	500	
WH. SAND			500	550	No SHOW (COWRUN)
GREY SILTSTONE			550	590	
LT. BRN. LIMESTONE			590	640	
RED SHALE & SILTSTONE			640	820	
GREY SHALE & SILTSTONE			820	1240	
SALT SAND WH.			1240	1350	No SHOW (SALT SAND)
DR. GREY SILTSTONE & SHALE			1350	1600	
MAXVINE LIME			1650	1720	
KEENER			1730	1755	WET
INJUN			1788	1915	WET
WIER			2035	2085	
BEREA			2280	2285	4427 2285
30 FT			2565	2580	2142
GORDON			2680	2730	
BAYARD			2980	3160	OIL SHOW AT 3100 FT
T.D.				4427	No OIL OR GAS SHOWS

(Attach separate sheets as necessary)

J. D. PARSONS

Well Operator

G. B. Petroleum Services Inc.

By:

Date:

*G. B. Smith*  
APRIL 6/83

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 ..., encountered in the drilling of a well."



1) Date: Jan. 31, 1983  
2) Operator's Well No. Friendship # 2  
3) API Well No. 47 State County Permit

DRILLING CONTRACTOR:

J.D. Parsons & Co., Inc.  
Williamstown W.V.

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: 975' Watershed: Branch of Buffalo Run District: Union County: Tyler Quadrangle: New Matamoros
6) WELL OPERATOR: J.D. Parsons & Co., Inc. Address: P.O. Box 94 Williamstown W.V. 26187
11) DESIGNATED AGENT: Jody Parsons Address: P.O. Box 94 Williamstown W.V. 26187
7) OIL & GAS ROYALTY OWNER: John V. Brannon Address: P.O. Box 37 Bridgeport W.V. 26330
12) COAL OPERATOR: none
8) SURFACE OWNER: J. White Address: Friendly W.V. Acreage: 66.26
13) COAL OWNER(S) WITH DECLARATION ON RECORD: Name: Address:
9) FIELD SALE (IF MADE) TO: 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, 4600' feet
18) Approximate water strata depths: Fresh, 120' feet; salt, 1600' feet.
19) Approximate coal seam depths: Is coal being mined in the area? Yes / No

20) CASING AND TUBING PROGRAM

Table with columns: CASING OR TUBING TYPE, SPECIFICATIONS (Size, Grade, Weight per ft., New, Used), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT FILL-UP OR SACKS (Cubic feet), PACKERS (Kinds, Sizes, Depths set, 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

Permit number: 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.

Table with columns: Bond, Agent, Plat, Casing, Fee

Administrator, Office of Oil and Gas

Line Item Explanation

- 1) Date of Application
2) Your well name and number
3) To be filled out by office of oil & gas
4A) 'Oil' means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: 'Gas' means all natural gas and all other fluid hydrocarbons not defined as oil.
4B) 'Shallow well' means any well drilled and completed in a formation above the top of the uppermost member of the 'Onondaga Group' or a depth less than six thousand feet, whichever is shallower.
'Deep well' means any well drilled and completed in a formation at or below the top of the uppermost member of the 'Onondaga Group' or at a depth less than six thousand feet, whatever is shallower.
5) Where well is located
6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
7) Use separate sheet if necessary
8) Present surface owner at time application is filed.
9) Optional
11) See Reg. 7.01 relating to code §22-4-1k
12) 'Coal Operator' means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
13 & 14) As per §22-4-20; See Note 24
15) Work that will be attempted—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.
16) Anticipated formation for which well will be completed
17) Self explanatory
18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
19) All coal seam depths
20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
(1)A brief description of the tract of land including the district and county wherein the tract is located;
(2)The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
(3)The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
(4)A brief description of the royalty provisions of each such lease or contract.
22) Code 22-4-11(d) and 22-4-11(e).
23) 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.
24) 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 the receipt of this Application by the Department.

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.

WAIVER

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 \_\_\_\_\_