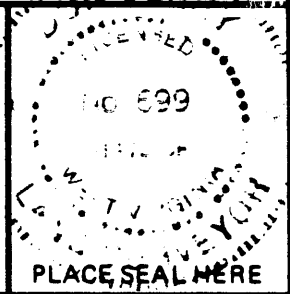


**DON BERRY, L.L.S.**  
 Tyler County Surveyor  
 Main St. Middlebourne, WV 26149  
 Phone 758-4014

FILE NO. 82-0740  
 DRAWING NO. 1  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION RD. INTERSECTION @ RT 2 = 656'

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) Don Berry  
 R.P.E. \_\_\_\_\_ L.L.S. 699



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



DATE JULY 13, 19 82  
 OPERATOR'S WELL NO. #1 TETRA  
 API WELL NO. F.R. WELLS  
47 - 095 - 0998  
 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 867' WATER SHED OHIO RIVER  
 DISTRICT LINCOLN COUNTY TYLER  
 QUADRANGLE NEW MATAMORAS & S. SE  
 SURFACE OWNER GEORGE L. TURNER ACREAGE 235.88  
 OIL & GAS ROYALTY OWNER F.R. WELLS HEIRS (EVELYN V. CLARK agent.) LEASE ACREAGE 478.00  
 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 BIG INJUN ESTIMATED DEPTH 2010'  
 WELL OPERATOR TETRA SYSTEMS DESIGNATED AGENT WILLIAM G. WHISNAND  
 ADDRESS 14142 DENVER WEST PARKWAY BUILDING 51, SUITE 200 ADDRESS No. 12 CAPITOL STREET CHARLESTON, W.V. 25301



IV-35  
(Rev 8-81)

**RECEIVED**  
AUG 07 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date November, 1982

Operator's  
Well No. #1

Farm F. R. Wells

API No. 47 - 095 - 0998

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 \_\_\_ /)  
stratigraphic test well

LOCATION: Elevation: 870 GL Watershed \_\_\_\_\_  
District: Lincoln County Tyler Quadrangle New Matamoras

COMPANY Tetra Svstems, Inc

ADDRESS 14142 Denver West Parkway, Golden Colorado

DESIGNATED AGENT \_\_\_\_\_

ADDRESS \_\_\_\_\_

SURFACE OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

MINERAL RIGHTS OWNER \_\_\_\_\_

ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Bob

Lowther ADDRESS P.O. Box 173, Middleboro, W. Va

PERMIT ISSUED \_\_\_\_\_

DRILLING COMMENCED \_\_\_\_\_

DRILLING COMPLETED 8/31/82

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.			
10 3/4"	245'	245'	surface
9 5/8			
8 5/8	1498'	1498'	surface
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Cuvahogh Shale Depth 2034' feet

Depth of completed well 2034' feet Rotary XXX / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 122' feet; Salt 525' feet

Coal seam depths: 432', 799', & 1044' Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation stratigraphic test Pay zone depth none feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ bbl/d

Final open flow \_\_\_\_\_ Mcf/d 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 (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

AUG 18 1989

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

Well was drilled as a stratigraphic test and was not equipped to produce oil or gas.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Mannington SS			122	158'	Fresh water
Uniontown Limestone			260	274'	none
Redstone Sandstone			403	415'	Salt Water
Pittsburgh Coal			432	435'	
Wolf Creek Sandstone			524	549'	Salt Water
Upper Freeport Coal			799	802'	
Second Cow Run Sand			1009	1044'	
Middle Kittanning Coal			1044	1046'	
Third Salt Sand			1364	1436	Salt Water
Greenbrier Limestone			1550	1599'	none
Keener Sand			1599	1622'	Salt Water
Big Injun Sand			1643	1758'	Oil & Gas
Squaw Sand			1782	1801'	Oil & Gas
Cuyahoga Shale			1801	2034'	none
TOTAL DEPTH				2034'	KB

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AUG 07 1989

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

TETRA SYSTEMS INC  
Well Completion

By: RICHARD BROWN, engineer

Date: 9-20-82

AUG 18 1989

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 ..."

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DEC 3 1982

State of West Virginia

Department of Mines

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

Date November 29, 1982  
Operator's  
Well No. #1  
Farm F.R. Wells  
API No. 47-095-0998

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

LOCATION: Elevation: 870 GL Watershed  
District: Lincoln County Tyler Quadrangle New Matamoras

COMPANY Tetra Systems, Inc.  
ADDRESS 14142 Denver West Parkway  
Golden, Colorado 80401  
DESIGNATED AGENT William G. Whisnand  
ADDRESS No. 12 Capitol St., Charleston, WV  
SURFACE OWNER Charles Turner  
ADDRESS Wick, WV  
MINERAL RIGHTS OWNER Evelyn V. Clark  
ADDRESS 182 Maple Ave., New Martinsville, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Bob  
Lowther ADDRESS P.O. Box 173  
Middlebourne, WV  
PERMIT ISSUED 8-4-82  
DRILLING COMMENCED 8-10-82  
DRILLING COMPLETED 9-4-82

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
10 3/4"	245'	245'	surface
9 5/8			
8 5/8	1498'	1498'	surface
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Wier Sand Depth 2300 feet  
Depth of completed well 2300 feet Rotary xxx / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh 122 feet; Salt 525 feet  
Coal seam depths: 432', 799', & 1044' Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation \_\_\_\_\_ Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ Mcf/d 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  
(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

DEC 21 1982

(Continue on reverse side)

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

None at this time

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Mannington SS			122	158'	Fresh water
Uniontown Limestone			260	274'	none
Redstone Sandstone			403	415'	Salt Water
Pittsburgh Coal			432	435'	
Wolf Creek Sandstone			524	549'	Salt Water
Upper Freeport Coal			799	802'	
Second Cow Run Sand			1009	1044'	
Middle Kittanning Coal			1044	1046'	
Third Salt Sand			1364	1436'	Salt Water
Greenbrier Limestone			1550	1599'	none
Keener Sand			1599	1622'	Salt Water
Big Injun Sand			1643	1758'	Oil & Gas
Squaw Sand			1782	1801'	Oil & Gas
Cuyahoga Shale			1801	2034'	none
Wier Sand			2034	2180'	
Devonian Shales ?			2180	TD 2300 - T.D	

- cored -

(Attach separate sheets as necessary)

Tetra Systems, Inc.

Well Operator

By:

*Hunter Swanson*

Date:

Hunter Swanson

November 29, 1982

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."

COPY



Date: July 7, 1982

Operator's Well No. 1 Tetra/F.R. Wells

API Well No. 47 095 0998

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION OIL AND GAS WELL PERMIT APPLICATION

RECEIVED

JUL 19 1982

WELL TYPE: Oil X / Gas (If "Gas", Production / Underground storage / Deep Shallow)

LOCATION: Elevation: 870' Watershed: Unknown District: Lincoln County: Tyler Quadrangle: New Matamoras

WELL OPERATOR Tetra Systems, Inc. Address 14142 Denver West Parkway Bldg 51, Suite 200 Golden, CO 80401

DESIGNATED AGENT Wm G. Whisnand Address No 12 Capitol Street Charleston, WV 25301

OIL & GAS ROYALTY OWNER F.R. Wells heirs (Evelyn V. Clark, agent) Address 182 Maple Avenue New Martinsville, WV 26155

COAL OPERATOR Address

ACREAGE 478.00 SURFACE OWNER George L. Turner Address P.O. Box J Wick, WV 26185 ACREAGE 235.88

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Address Name Address

FIELD SALE (IF MADE) TO: Address

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip L. Tracy Address Rt. 23 Alma, WV 26320

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease other contract X / dated March 10, 1982, to the undersigned well operator from Roberson-Williams Oil Corp.

(If said deed, lease, or other contract has been recorded:) Recorded on March 22, 1982, in the office of the Clerk of the County Commission of Tyler County, West Va., in Deed Book 237 at page 688. A permit is requested as follows:

PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) Full Hole Core

—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 522-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO: WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311 TELEPHONE: (304) 348-3092

TETRA SYSTEMS, INC. Well Operator By John S. Hopkins Its President

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:  
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) J.D. Parsons Drilling & Co. Inc.  
Address P.O. Box 94  
Williamstown, WV 26187

RECEIVED

GEOLOGICAL TARGET FORMATION, Big Injun Sandstone

Estimated depth of completed well, 2010 feet Rotary X / Cable tools 9 1982 /

Approximate water strata depths: Fresh, 30 feet; salt, -- feet.

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

Approximate coal seam depths: no known/ Is coal being mined in the area? Yes --- / No X /  
deposits beneath subject lease

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS			New		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft	Used	For drilling	Left in well			
Conductor	11 3/4"	J55	42#	X	15" bit		50'	23.71	Kinds
Fresh Water									
Coal									Sizes
Intermediate	8 5/8"	J55	24#	X	11" bit		1400'	357.20	
Production	5 1/2"	J55	15.5#	X	7 7/8" bit		2010'	108.32	Depths set
Tubing	2 3/8"	J55	4.7#	X					
Liners	5 1/2"	J55	15.5#	X	7 7/8" bit				Perforations: unknown
									Top Bottom
								Total 489.23 cu. ft.	

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 TRUST DEPOSITED AT THE WELL SITE.  
ALL PROVISIONS OF THIS PERMIT SHALL BE ACCORDANCE WITH CHAPTER 22,  
ARTICLE 4 OF THE WEST VIRGINIA CODE. THE LOCATION IS HEREBY  
APPROVED FOR drilling THIS PERMIT SHALL EXPIRE  
IF OPERATIONS ARE NOT COMMENCED BY 4-3-83  
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.

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 ---