

*John Galpin*

New Location <input checked="" type="checkbox"/> Drill Deeper <input type="checkbox"/> Abandonment <input type="checkbox"/>	Minimum Error of Closure ..... <u>1 in 200.0</u>
	Source of Elevation ..... <u>Intersection of W. Va. St. Rt. 10 and Bear Branch</u>
	"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company	<u>Teavee Oil and Gas Inc.</u>	<u>869</u>
Address	<u>Charleston, W. Va.</u>	
Farm	<u>Charles O. Martin</u>	
Tract	Acres <u>88</u>	Lease No. _____
Well (Farm) No.	<u>TV-93</u>	Serial No. _____
Elevation (Spirit Level)	<u><del>580' 614'</del> 580'</u>	
Quadrangle	<u>Winfield (15')</u>	<u>139 C</u>
County	<u>Putnam</u>	District <u>Buffalo 1</u>
Engineer	<u>John Galpin</u>	
Engineer's Registration No.	<u>895</u>	
File No.	Drawing No. _____	
Date	<u>Sept 13, 1977</u>	
	Scale <u>1" = 1000'</u>	

**STATE OF WEST VIRGINIA**  
DEPARTMENT OF MINES  
**OIL AND GAS DIVISION**  
CHARLESTON

**WELL LOCATION MAP**  
FILE NO. PUT-845 - Frac.  
FORMERLY - PUT-836  
No Well Located

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

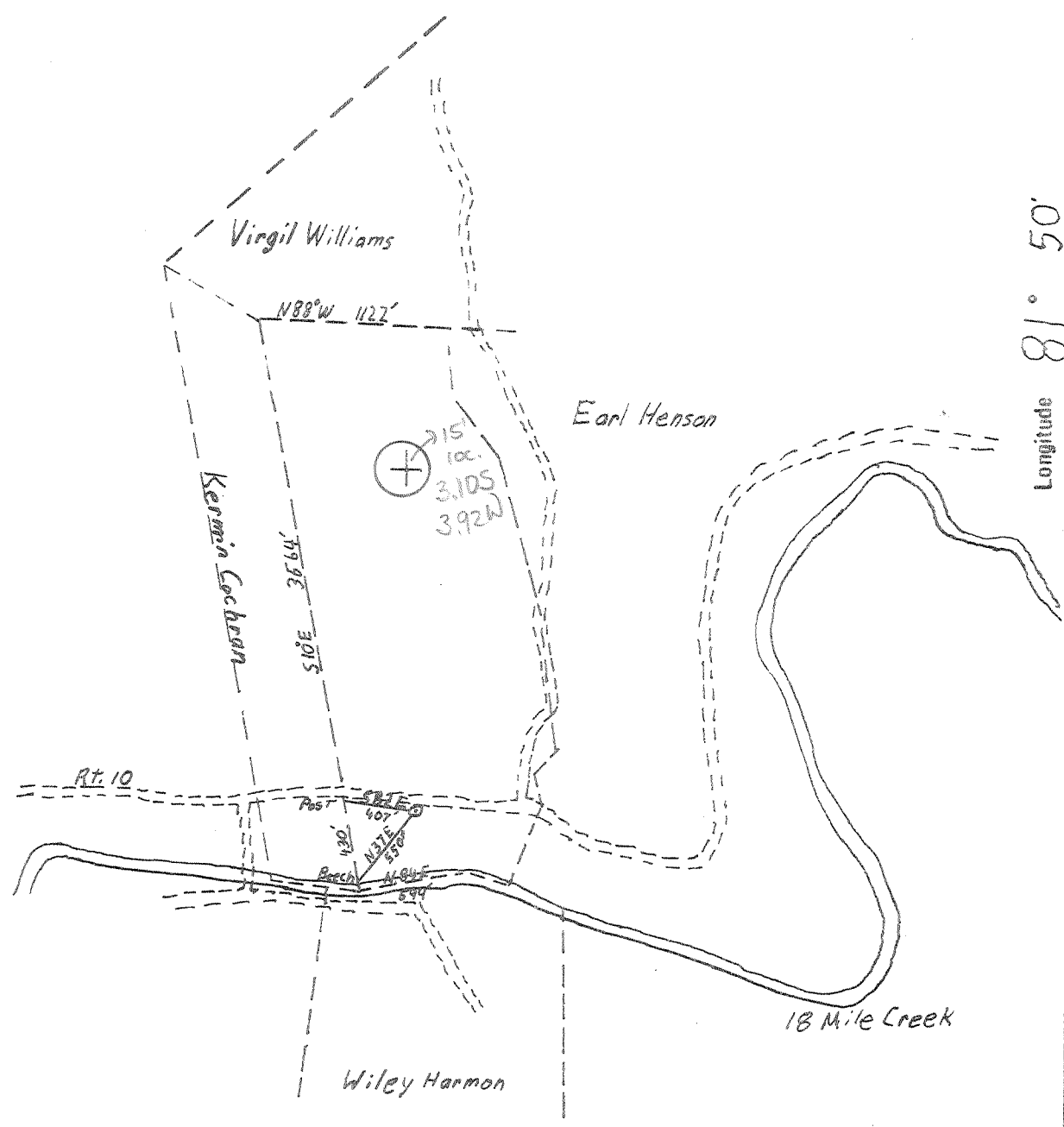
47-079

N21664

DEEP WELLS  
4525' Oriskany Revised Elevation  
OWWO - 6.6 Midway - Extra (278)

Latitude 38° 40'

Longitude 81° 50'



Minimum Error of Closure 1 in 200 P  
 Source of Elevation Intersection of W. Va. St. Rt. 10 and Bear Branch  
 "I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

New Location   
 Drill Deeper   
 Abandonment

Company Teavee Oil and Gas, Inc.  
 Address Charleston, W. Va.  
 Farm Charles O. Martin  
 Tract \_\_\_\_\_ Acres 88 Lease No. \_\_\_\_\_  
 Well (Farm) No. TV-93 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 580' 614'  
 Quadrangle Winfield (15) C  
 County Putnam District Buffalo  
 Engineer John Galpin  
 Engineer's Registration No. 895  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Sept 13, 1977 Scale 1" = 1000'

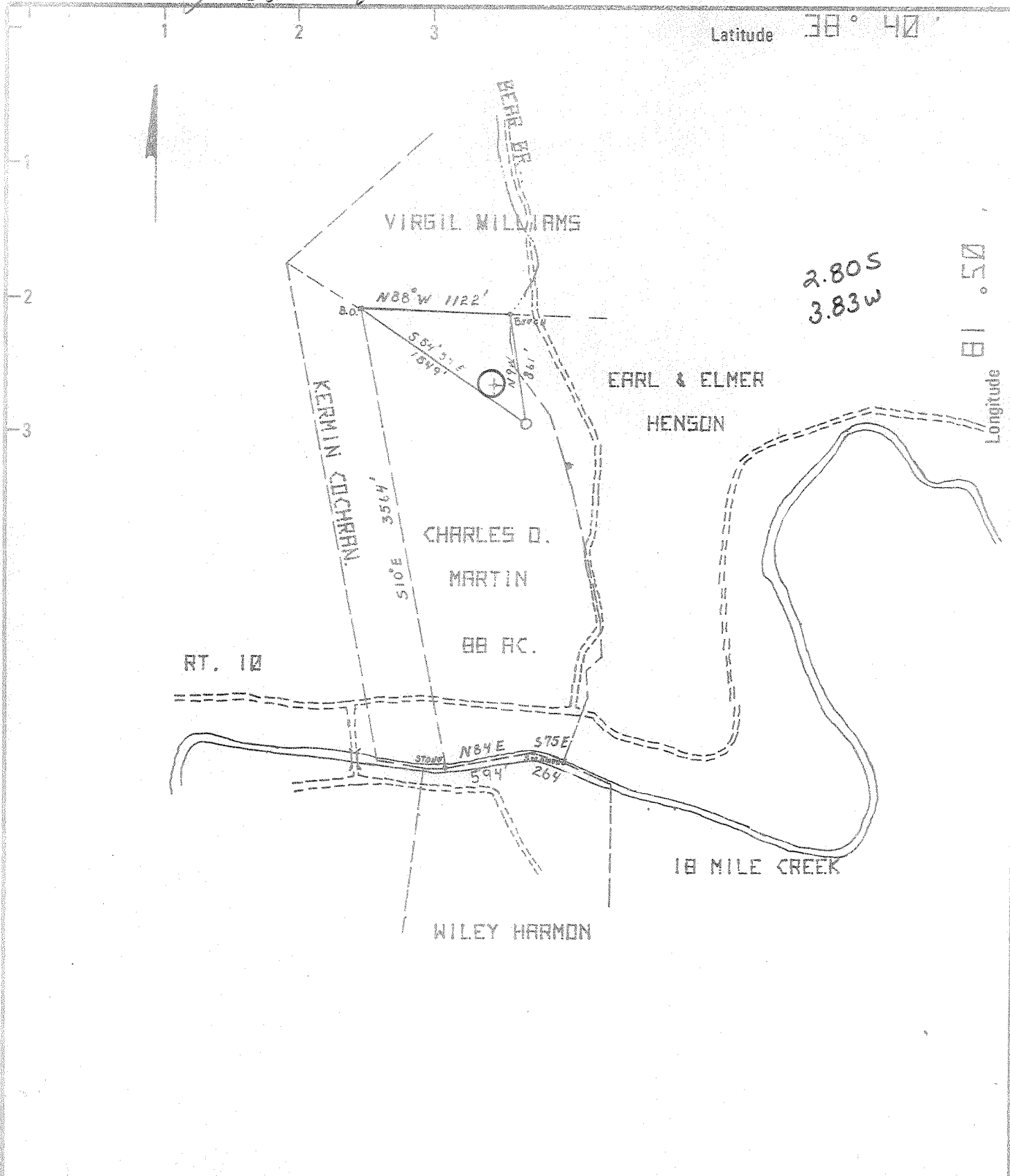
STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
 WELL LOCATION MAP  
 FILE NO. PUT-845  
 FORMERLY - PUT-836

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-079 OCT 7 1977

N2166 DEEP WELL 4.525' Oriskany 6-6 Midway Extra (298) Reversed Elevation



New Location  Drill Deeper  Abandonment

Minimum Error of Closure 1 IN. 200 F  
 Source of Elevation INTERSECTION OF W. VA. ST. RT. 10 AND BEAR BRANCH

"I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia."

Company TEAVEE OIL AND GAS, INC.  
 Address CHARLESTON, W.V.  
 Farm CHARLES D. MARTIN  
 Tract \_\_\_\_\_ Acres 88 Lease No. \_\_\_\_\_  
 Well (Farm) No. IV - 93 - 1 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 614.2  
 Quadrangle WINEFIELD (15 MIN)  
 County PUTNAM District BUFFALO  
 Engineer JOHN GALPIN  
 Engineer's Registration No. 875  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date NOV. 22, 1976 Scale 1" = 1000'

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

WELL LOCATION MAP  
 FILE NO. PUT-836

*CANCELLED  
 (SEE PUT 845 - DEEP WELL)*

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500 latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

47-079

MR-35

RECEIVED  
JUL 21 1987

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY



State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date June 22, 1987  
Operator's  
Well No. TV-93  
Farm C. O. Martin  
API No. 47 - 079 - 0845 Frac.

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 580.0 Watershed Eighteen Mile Creek  
District: Buffalo County Putnam Quadrangle Winfield, WV

COMPANY Teavee Oil & Gas, Inc.  
ADDRESS 1901 Kanawha Valley Bldg. Charleston, WV 25301  
DESIGNATED AGENT Duane Bowers  
ADDRESS P. O. Box 27, Winfield, WV 25213  
SURFACE OWNER C. O. Martin  
ADDRESS Route # 1, Buffalo, WV 25033  
MINERAL RIGHTS OWNER C. O. Martin  
ADDRESS Route # 1, Buffalo, WV 25033  
OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock ADDRESS Ripley, WV  
PERMIT ISSUED March 19, 1987  
DRILLING COMMENCED 10/5/77  
DRILLING COMPLETED 10/11/77  
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"	110	110	to surface
9 5/8			
8 5/8			
7	2278	2278	Packer
5 1/2			
4 1/2			
3 1/2		1180	300 sks.
2			
Liners used			

GEOLOGICAL TARGET FORMATION Brown Shale Depth 3800 feet

Depth of completed well 1180 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 40 feet; Salt 980 feet

Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3135-3640 feet

Gas: Initial open flow Show Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow 50 Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 780 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)

Second producing formation N/A 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)

JUL 27 1987

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

28 holes from <sup>49 D → Huron</sup> 3135 - 3640  
 Stimulated with 90% foam 50 bbl/min.

Breakdown 500 gal. HCl 15%, 800 gal. Methanol 33% water mix.

Fractured well 90% foam, 210 bbl. water, 500 sks 20/40 sand, 100 sks. 16/30 sand, 940 MCF N<sub>2</sub>

Well brokedown @ 2300 psi, treated @ 4000 psi, shut in @ 1450 psi

Physical changes permanent bridge @ 4341 ft. cement and gel plugs back to 3800ft.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Refer to IV 35 for formation record					<p style="text-align: center;"><b>RECEIVED</b>                  JUL 21 1987                  DIVISION OF OIL &amp; GAS                  DEPARTMENT OF ENERGY</p>

(Attach separate sheets as necessary)

Teayee Oil & Gas, Inc.  
 Well Operator  
 By: Wm Bowers Geologist  
 Date: June 22, 1987

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 ~~logs, maintained in the drilling of a well.~~"

**RECEIVED**  
JUL 10 1985



OIL & GAS DIVISION  
**DEPT. OF MINES**

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date 7/1/85  
Operator's  
Well No. TV - 93  
Farm Charles Martin  
API No. 47 - 079 - 0845

**WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE**

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

LOCATION: Elevation: 580.0 Watershed Eighteen Mile Creek  
District: Buffalo County Putnam Quadrangle Winfield 15'

COMPANY Teavee Oil & Gas, Inc.  
ADDRESS 1901 Kanawha Valley Bldg.  
Charleston, WV  
DESIGNATED AGENT D. Bowers  
ADDRESS Charleston, WV  
SURFACE OWNER Charles Martin  
ADDRESS Buffalo, WV  
MINERAL RIGHTS OWNER Charles Martin  
ADDRESS Buffalo, WV  
OIL AND GAS INSPECTOR FOR THIS WORK     
C. Hively ADDRESS Elkview, WV  
PERMIT ISSUED 8/30/77  
DRILLING COMMENCED 10/5/77  
DRILLING COMPLETED 10/11/77 ✓  
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.			
<del>18-10</del> <sup>3/4</sup>	140	140	60
9 5/8			
8 5/8			
7	2278	2278	Bottom hole Packer
5 1/2			
4 1/2			
3		4480	200 sack 50/50 Pozmix
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Depth 4424 feet  
Depth of completed well 4480 feet Rotary X / Cable Tools     
Water strata depth: Fresh 40 feet; Salt 980 feet  
Coal seam depths: N/A Is coal being mined in the area? No

**OPEN FLOW DATA**

Producing formation Oriskany Pay zone depth 4424 feet  
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 130 Mcf/d Final open flow N/A Bbl/d  
Time of open flow between initial and final tests 72 hours  
Static rock pressure 700 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation N/A 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

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

perforation @ 4428 4433 10 shots

Well completed with 1000 gallons HCl 15%, 10,000 lbs 80/100 sand, 15,000 lbs 20/40 sand, 500 BBLs H<sub>2</sub>O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Red rock & shale			0	131	Fresh water 40'
Shale			131	140	
Red rock & shale			140	260	
Shale			260	777	
Slate & shells			777	980	
Sand			980	991	
Slate & shells			991	1102	
Sand			1102	1209	
Salt sand			1209	1503	
Lime shell			1503	1530	
Big Lime			1530	1868	
Shale			1868	1878	
Injun Sand			1878	1950	
Shale			1950	2222	
* Coffee shale			2222	2234	
*Berea			2234	2262	
Slate & shells			2262	2800	
Shale			2800	3408	
*Brown shale			3408	3815	
White slate			3815	4150	
*Marcellus shale			4150	4341	
*Corniferous Lime			4341	4326 <sup>4426</sup>	
*Oriskany sandstone			4326 <sup>4426</sup>	4336 <sup>4426</sup>	Gas
Lime			4336 <sup>4426</sup>	4501.	Total depth

\*Indicates electric log depths

(Attach separate sheets as necessary)

Teavee Oil & Gas, Inc.

Well Operator

By:

*D. Bowen*

Geologist

Date:

7/1/85

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."



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

DEC 7 1976

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE November 22, 1976

Surface Owner Charles O. Martin

Company Teavee Oil & Gas, Inc.

Address Buffalo, West Virginia

Address 1901 Kanawha Valley Bldg.

Mineral Owner Charles O. Martin

Farm C.O. Martin Acres 88

Address Buffalo - Winfield

Location (waters) Eighteen Mile Creek

Coal Owner None

Well No. TV-93-1 Elevation 614.2

Address \_\_\_\_\_

District Buffalo County Putnam

Coal Operator \_\_\_\_\_

Quadrangle Winfield (15)

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 4-7-77

*Robert H. Todd*  
Deputy Director - Oil & Gas Division

INSPECTOR TO BE NOTIFIED Martin Nichols  
PH: 548-6993 ADDRESS Clendenin, W.Va.

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 22nd. Oct. 1976 by Charles O. Martin & Bonnie Martin made to Teavee Oil and Gas, Inc. and recorded on the 9th day of August 1976, in Putnam County, Book 58 Page 935

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  
Martinsburg, W. Va. 26505

Address  
of  
Well Operator

Very truly yours, *William Bluff*  
(Sign Name) Teavee Oil & Gas, Inc.  
Well Operator

1901 Kanawha Valley Bldg.  
Street  
Charleston,  
City or Town  
West Virginia  
State

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.

\*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.

PUT-836

PERMIT NUMBER

47-079

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 Burdette Oil & Gas, Inc. NAME V. C. Smith  
 ADDRESS P.O. Box 10167, Station "c" ADDRESS Winfield  
 TELEPHONE 776-3767 TELEPHONE 755-5202  
 ESTIMATED DEPTH OF COMPLETED WELL: 3875 ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Brown Shale  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>10 3/4</u>	<u>120</u>	<u>120</u>	<u>To surface</u>
9 - 5/8			
8 - 5/8			
7	<u>1920'</u>	<u>1920'</u>	
5 1/2			
4 1/2			
3			Perf. Top
2	<u>3875'</u>	<u>3875'</u>	Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS Not known 1090 - 24"  
 IS COAL BEING MINED IN THE AREA? No 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



RECEIVED

AUG 30 1977

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

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

DATE August 25, 1977  
Company Seavee Oil and Gas Inc.  
Address 1901 Kanawha Valley Bldg.  
Farm C.O. Martin Acres 88  
Location (waters) Eighteen Mile Creek  
Well No. TV-95-1 Elevation 614.2  
District Buffalo County Putnam  
Quadrangle Winfield 15'

Surface Owner Charles O. Martin  
Address Buffalo, West Virginia  
Mineral Owner Charles O. Martin  
Address Buffalo-Winfield  
Coal Owner None  
Address \_\_\_\_\_  
Coal Operator \_\_\_\_\_  
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 12-31-77.

INSPECTOR  
TO BE NOTIFIED Martin Nichols  
ADDRESS Clendenin, W.Va.  
PHONE 548-6993

*Robert A. Ladd*  
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 22nd, Oct. 1976 by Charles O. Martin & Bonnie Martin made to Seavee Oil and Gas Inc. and recorded on the 9th day of August 1976, in Putnam County, Book 58 Page 935

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, *J. Gray Corbett*  
(Sign Name) \_\_\_\_\_  
Well Operator  
1901 Kanawha Valley Bldg.  
Street  
Charleston  
City or Town  
West Virginia  
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.  
(Formerly: PUT-736)

BLANKET BOND

PUT-845 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."

47-079

Signed by *J. Gray Corbett*

*Survey*

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

PROPOSED WORK ORDER TO  DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME FVA Drilling Inc. \_\_\_\_\_ NAME J. Craig Corbett \_\_\_\_\_  
 ADDRESS Hilview \_\_\_\_\_ ADDRESS Winfield \_\_\_\_\_  
 TELEPHONE 965-3379 \_\_\_\_\_ TELEPHONE 755-5202 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 4525' \_\_\_\_\_ ROTARY  \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriolany \_\_\_\_\_  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS  \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10 <u>10 3/4</u>	<u>120'</u>	<u>120'</u>	<u>To Surface</u>
9 - 5/8			
8 - 5/8			
7	<u>1920'</u>	<u>1920'</u>	
5 1/2			
4 1/2			
3		<u>4485'</u>	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS Not Known \_\_\_\_\_  
 IS COAL BEING MINED IN THE AREA? No \_\_\_\_\_ 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

RECEIVED  
MAR 19 1987



- 1) Date: March 06, 1987
- 2) Operator's Well No. TV-93
- 3) API Well No. 47 079 845 - FRAC  
State County Permit

STATE OF WEST VIRGINIA

DIVISION OF OIL & GAS DEPARTMENT OF ENERGY, OIL AND GAS DIVISION  
DEPARTMENT OF ENERGY APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil      / Gas X  
B (If "Gas", Production X / Underground storage      Deep X Shallow X)
- 5) LOCATION: Elevation: 580.0 Watershed: Eighteen Mile Creek  
District: Buffalo / 869 County: Putnam Quadrangle: Winfield WV 687
- 6) WELL OPERATOR Teavee Oil & Gas CODE: 48900 7) DESIGNATED AGENT Duane Bowers  
Address 1901 Kanawha Valley Bldg. Charleston WV 25301 Address P.O. Box 27 Winfield WV 25213
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Jerry Tephach  
Address Ripley WV 9) DRILLING CONTRACTOR: Name N/A  
Address N/A
- 10) PROPOSED WELL WORK: Drill      / Drill deeper      / Redrill      / Stimulate X  
Plug off old formation X / Perforate new formation X  
Other physical change in well (specify) See attached for work order description
- 11) GEOLOGICAL TARGET FORMATION, Brown Shale 401
- 12) Estimated depth of completed well, 3900 feet
- 13) Approximate trata depths: Fresh, 40 feet; salt, 980 feet.
- 14) Approximate coal seam depths: N/A Is coal being mined in the area? Yes      / No X

15) 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	10 3/4			X		140	140	to surface	
Coal									Sizes
Intermediate	7"	15	20	X		2278	2278	Packer	
Production									Depths set
Tubing	3.5	sm/s	9.2	X			4480	200 SKS	
Liners									Perforations:
									Top Bottom
									4428 4433

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-079-0845-FRAC Date March 19 19 87

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 19, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>5022</u> <u>186</u>	WPOV: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.