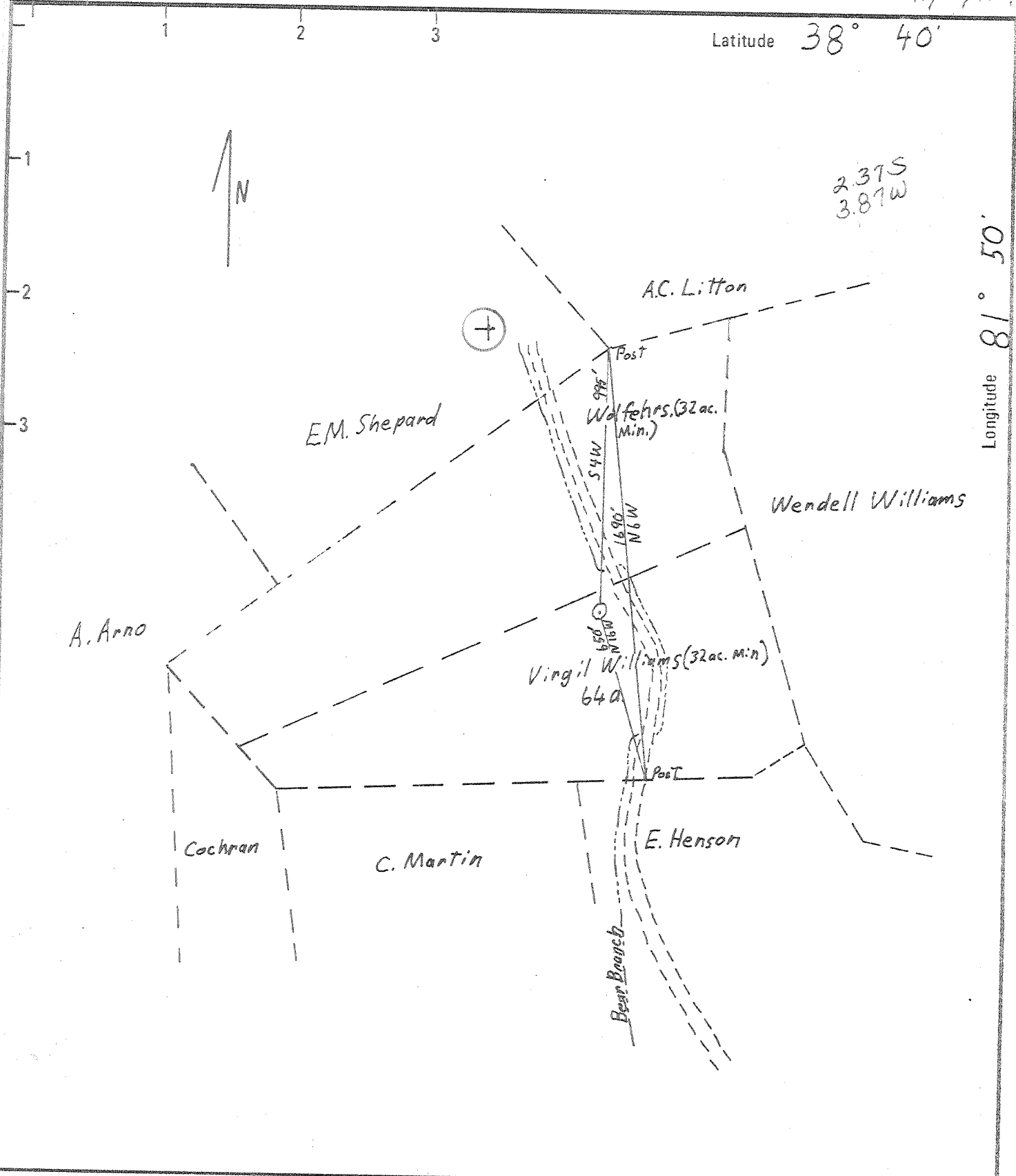


10/17/77

Latitude 38° 40'

Longitude 81° 50'



New Location  Drill Deeper  Abandonment

Minimum Error of Closure 1 in 200  
 Source of Elevation Intersection of W. Va. 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. Va.  
 Farm Virgil Williams (unitized with Wolfe Hrs)  
 Tract \_\_\_\_\_ Acres 64 Lease No. \_\_\_\_\_  
 Well (Farm) No. TV-96 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 625'  
 Quadrangle Winfield (15') C  
 County Putnam District Buffalo  
 Engineer John Galpin  
 Engineer's Registration No. 875  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Oct 12, 1977 Scale 1" = 500'

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

WELL LOCATION MAP  
 FILE NO. PUT - 850

+ 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 25 1977

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

Date 7/1, 1985

FORM IV-35  
(Obverse)

Operator's  
Well No. TV-96

WELL OPERATOR'S REPORT

[08-78]

OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

API Well No. 47 - 070 - 25  
State County Perrine

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 625.0 Watershed: Bear Branch  
District: Buffalo County: Putnam Quadrangle: Winfield, 15'

WELL OPERATOR Teavee Oil & Gas, Inc. DESIGNATED AGENT D. K. Bowers  
Address 1901 Kanawha Valley Bldg. Address 1901 Kanawha Valley Bldg.  
Charleston, WV Charleston, WV

PERMITTED WORK: Drill  / Convert  / Drill deeper  / Redrill  / Plug off old formation  / Perforate new formation  / Other physical change in well (specify) \_\_\_\_\_

**RECEIVED**  
JUL 10 1985

PERMIT ISSUED ON 10/14/77, 19\_\_\_\_ OIL & GAS INSPECTOR FOR THE **DEPT. OF MINES**  
Name C. Hiveley  
Address Elkview, WV

GEOLOGICAL TARGET FORMATION: Oriskany Depth 4420  
Depth of completed well, 4481 feet Rotary XX / Cable Tools \_\_\_\_\_  
Water strata depth: Fresh, 80 feet; salt, 960 feet.  
Coal seam depths: N/A Is coal being mined in the area? No  
Work was commenced 10/26/77, 19\_\_\_\_, and completed 10/31/77, 19\_\_\_\_

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	REMARKS
	Size	Grade	Weight per ft	New	Used	For drilling		
Conductor								Kinds
Fresh water	10 3/4"					152	152	72
Coal								Sizes
Intermediate	7					2334	2334	135
Production	3 1/2						4452	220 50/50 Pozmix
Tubing								Perforations:
Liners								Top Bottom

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 4420  
Gas: Initial open flow, 10 Mcf/d Oil: Initial open flow, N/A Bbl/d  
Final open flow, 100 Mcf/d Final open flow, N/A Bbl/d  
Time of open flow between initial and final tests, \_\_\_\_\_ hours  
Static rock pressure, 600 psig (surface measurement) after 24 hours shut in.  
[If applicable due to multiple completion--]  
Second producing formation N/A Pay zone depth \_\_\_\_\_  
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.

JUL 22 1985

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

Perforated intervals: 4420-4428 8 shots

Treated with 1000 gal. 15% HCl, 31,000 lbs. of 20/40 sand  
820 BBLs of 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
Sand Gravel Clay			0	55	
Red Rock and Sand			55	690	Water
Shale			690	941	
Sand			941	980	Salt Water
Shale			980	1179	
Sand			1179	1190	
Slate & Shells			1190	1385	
Salt sand			1385	1485	
Slate shells			1485	1570	
Little lime			1570	1587	
Shale			1587	1588	
Big lime			1588	1740	
Shale			1740	1780	
Injun sand			1780	1840	
Slate & Shells			1840	2234	
*Coffee shale			2234	2256	
*Berea			2256	2282	
Grey shale			2282	3424	
*Brown shale			3424	3968	
White slate			3968	4158	
*Marcellus shale			4158	4345	
*Corniferous Lime			4345	4420	
*Oriskany sand			4420	4428	Gas
Lime			4428	4481	
Total depth				4481	

\*indicates electric log/

(Attach separate sheets to complete as necessary)

Teavee Oil & Gas, Inc.  
Well Operator  
By D. H. Bowen Geologist  
2/6/85

**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  
OCT 14 1977  
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 Oct 14 1977

Surface Owner Virgil Williams  
Address Buffalo, W. Va.

Company Teavee Oil and Gas Inc.  
Address Charleston, W. Va.

Mineral Owner Virgil Williams & Wolfe Mrs.  
Address Buffalo W. Va.

Farm Virgil Williams Acres 64

Coal Owner Same

Location (waters) Bear Branch

Address Same

Well No. TV-96 Elevation 625

Coal Operator None

District Buffalo County Putnam

Address \_\_\_\_\_

Quadrangle Winfield, 15'

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 2-17-78.

INSPECTOR TO BE NOTIFIED Kenneth Butcher

ADDRESS Barboursville, W. Va.

Robert W. Todd  
Deputy Director - Oil & Gas Division

PHONE 736-4885

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 June 24 19 77 by Virgil Williams made to Teavee Oil and Gas Inc. and recorded on the 24 day of June 19 77, in Putnam County, Book 56 Page 666

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.

Very truly yours, [Signature]  
(Sign Name) for Teavee Oil and Gas Inc  
Well Operator

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

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.

BLANKET BOND

"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 [Signature]

PUT-850 PERMIT NUMBER

47-079

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 \_\_\_\_\_ NAME Craig Corbett \_\_\_\_\_  
 ADDRESS Elkview \_\_\_\_\_ ADDRESS Winfield, V.Va. \_\_\_\_\_  
 TELEPHONE 965-3379 \_\_\_\_\_ TELEPHONE 755-5202 \_\_\_\_\_  
 ESTIMATED DEPTH OF COMPLETED WELL: 4520 \_\_\_\_\_ ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany \_\_\_\_\_  
 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>140</u>	<u>140</u>	<u>To Surface</u>
9 - 5/8			
8 - 5/8			
7	<u>2315</u>	<u>2315</u>	<u>Bottom Hole Packer</u>
5 1/2			
4 1/2			
3		<u>4500</u>	Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 80 FEET \_\_\_\_\_ SALT WATER \_\_\_\_\_ FEET \_\_\_\_\_  
 APPROXIMATE COAL DEPTHS none \_\_\_\_\_  
 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