



FILE NO. TV - Put 102  
 DRAWING NO. 1  
 SCALE 1 inch = 200 feet  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Well: Put 320 EL: 572 & B.M. @ Trace Creek EL: 606

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) John H. [Signature]  
 R.P.E. 875 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE August 14, 1984  
 OPERATOR'S WELL NO. TV-Put 102  
 API WELL NO. \_\_\_\_\_

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL   
 (IF "GAS,") PRODUCTION  STORAGE  DEEP  SHALLOW   
 STATE 47 COUNTY 079 PERMIT 1123

LOCATION: ELEVATION 556.98' WATERSHED Hurricane Creek  
 DISTRICT Teays Valley COUNTY Putnam  
 QUADRANGLE Winfield Wv 639 15' 507

SURFACE OWNER V. Courtlandt Smith ACREAGE ±21.5  
 OIL & GAS ROYALTY OWNER V. Courtlandt Smith LEASE ACREAGE 88.5'

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 Oriskany ESTIMATED DEPTH 4300 feet  
 WELL OPERATOR Teavee Oil & Gas Inc. DESIGNATED AGENT Howard G. May  
 ADDRESS 1901 Kanawha Valley Bldg. Charleston WV 25301 ADDRESS 1901 Kanawha Valley Bldg. Charleston WV 25301

FORM IV-6 (8-78)

COUNTY NAME PUT  
 PERMIT 1123

DEEP WELL 66 address (210)

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

Date Nov. 30, 1984

FORM IV-35  
(Obverse)

Operator's  
Well No. TV - 102

[08-78]

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

API Well No. 47 - 070 - 1123  
State County Putnam

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal   
(If "Gas", Production  / Underground storage  / Deep  / Shallow   
LOCATION: Elevation: 556.98 Watershed: Hurricane Creek  
District: Teays Valley County: Putnam Quadrangle: Winfield

WELL OPERATOR Teavee Oil & Gas, Inc. DESIGNATED AGENT Howard G. May  
Address 1901 Kanawha Valley Bldg Address 1901 Kanawha Valley Bldg.  
Charleston, WV 25301 Charleston, WV 25301

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

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DEPT. OF MINES

PERMIT ISSUED ON August 21, 1984  
(IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED)  
OIL & GAS INSPECTOR FOR THE STATE OF WEST VIRGINIA  
Name Jerry Tephacock  
Address Rt. 1 Box 101-A  
Ripley, WV 25271

GEOLOGICAL TARGET FORMATION: Oriskany Sandstone Depth 4103  
Depth of completed well, 4130 feet Rotary  / Cable Tools   
Water strata depth: Fresh, 80 feet; salt, 990 feet.  
Coal seam depths: N/A Is coal being mined in the area? N/A  
Work was commenced 9/9, 1984, and completed 9/19, 1984

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	<u>9 5/8</u>		<u>40</u>	<input checked="" type="checkbox"/>		<u>426</u>	<u>426</u>	To surface Circulated
Coal								Sizes
Intermediate	<u>7"</u>		<u>20</u>	<input checked="" type="checkbox"/>		<u>2266</u>	<u>2266</u>	150 Sacks Through Salt Sand
Production								Depths set
Tubing	<u>3 1/2</u>		<u>9.2</u>	<input checked="" type="checkbox"/>		<u>4130</u>	<u>4130</u>	340 cu. ft. Light Poz Cement
Liners								Perforations: Top Bottom

OPEN FLOW DATA

Producing formation Oriskany Sandstone Pay zone depth 4103  
Gas: Initial open flow, Show Mcf/d Oil: Initial open flow, N/A Bbl/d  
Final open flow, 150 Mcf/d Final open flow, N/A Bbl/d  
Time of open flow between initial and final tests, 48 hours  
Static rock pressure, \_\_\_\_\_ psig (surface measurement) after \_\_\_\_\_ hours shut in  
[If applicable due to multiple completion--]  
Second producing formation None 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

DEC 26 1984

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

9 holes 4,108 - 4116  
 1,000 gallons HCL 15%  
 156 sacks 20/40 sand  
 441,000 SCF N<sub>2</sub>  
 75% Foam

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WELL LOG

FORMATION	Color	Hard or Soft	Top Feet	Bottom Feet	Remarks Including indication of all fresh and salt water, coal, oil and gas
Surface			0	70	
Sand & Gravel			70	90	Fresh Water
Shale			90	212	
Sandy Shale			212	450	
Slate			450	479	
Sand			479	505	
Slate			505	700	
Sand			700	815	
Sand & Shells			815	997	Salt Water
SAND SALT			997	1011	
Shale			1011	1429	
BIG LIME			1429	1508	
Shale			1508	1534	
Lime			1534	1597	
BIG INJUN			1597	1622	
Shale			1622	2036	
COFFEE SHALE			2036	2050	
BEREA			2050	2079	
Shale			2079	2254	
Slate Shells			2254	2278	
Slate			2278	2330	
Gray Shale			2330	3146	
BROWN SHALE			3146	3536	
Slate			3536	3866	
MARCELLUS			3866	4010	
CORNIFEROUS LIME			4010	4103	
ORISKANY SAND			4103	4112	Show of Gas
Lime			4112	4150	

(Attach separate sheets to complete as necessary)

Teavee Oil & Gas, Inc.  
 Well Operator  
 By A. S. May  
 Its Rgt.

**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."

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AUG 2 1 1984



1) Date: August 14, 1984  
 2) Operator's Well No. TV - Put. 102  
 3) API Well No. 47 - 079 - 1123  
 State County Permit

OIL & GAS DIVISION  
 STATE OF WEST VIRGINIA  
 DEPT. OF MINES DEPARTMENT OF MINES, OIL AND GAS DIVISION  
**APPLICATION FOR A WELL WORK PERMIT**

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage  / Deep  / Shallow )
- 5) LOCATION: Elevation: 556.98' Watershed: Big Hurricane Creek K22  
 District: Teays Valley County: Putnam Quadrangle: Winfield WV
- 6) WELL OPERATOR Teavee Oil & Gas Inc. 7) DESIGNATED AGENT H.G. May  
 Address 1901 Kanawha Valley Bank Bldg. Address 1901 Kanawha Valley Bank Bldg.  
Charleston WV 25301
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Jerry Holcomb Name FWA Drilling Co. Inc.  
 Address Rural Rte. #1 - Box 28 Address PO Box 419  
Hamlin WV 25523 Wichita Fall Tx. 76307
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Oriskany
- 12) Estimated depth of completed well, 4,300 feet
- 13) Approximate trata depths: Fresh, 40 feet; salt, 600 feet.
- 14) Approximate coal seam depths: \_\_\_\_\_ Is coal being mined in the area? Yes \_\_\_\_\_

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OIL & GAS DIVISION  
 DEPT. OF MINES

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									Kind
Fresh water	<u>9 5/8</u>					<u>400</u>	<u>400</u>	<u>To surface</u>	<u>By rule 15.05</u>
Coal									Sizes
Intermediate	<u>7"</u>					<u>2100</u>	<u>2100</u>	<u>Thru. Salt Sand</u>	Depths set
Production									
Tubing	<u>3 1/2</u>					<u>4,300</u>	<u>4,300</u>	<u>100cu Ft</u>	
Liners								<u>as required by</u>	<u>Top rule Bottom 15.0'</u>

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-079-1123 Date August 21, 1984

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 August 21, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>155</u>	Agent: <input checked="" type="checkbox"/>	Plat: <u>MS</u>	Casing: <u>MS</u>	Fee: <u>6345</u>
BLANKET				

Margaret J. Hase  
 Administrator, Office of Oil and Gas

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