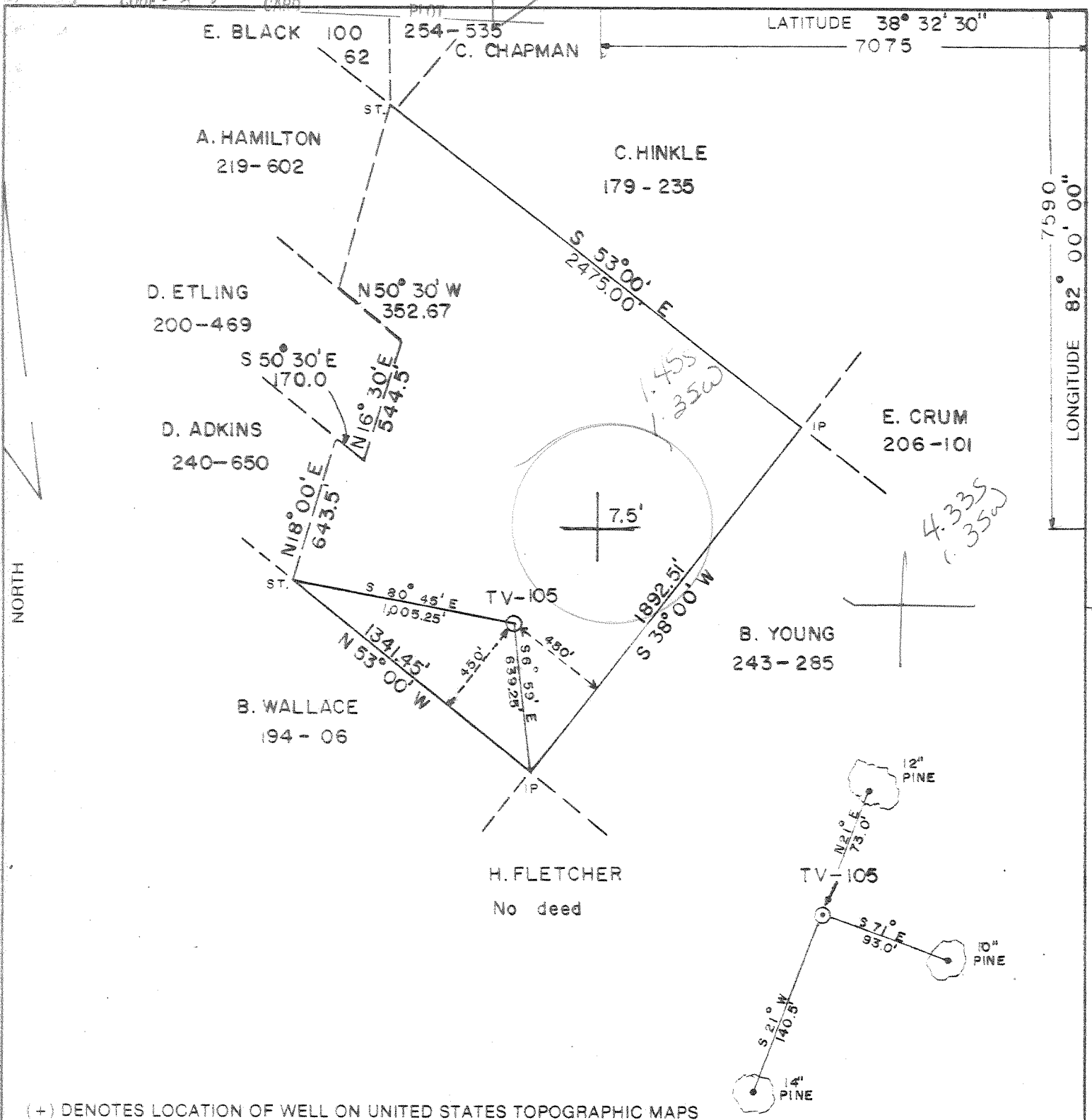


CODE 22-35

38 35



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 1  
 DRAWING NO. 105  
 SCALE 1 in. = 600 ft.  
 MINIMUM DEGREE OF ACCURACY 1 in 200  
 PROVEN SOURCE OF ELEVATION Well no. PUT. 51  
1001 ft.

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

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE NOVEMBER 18, 1985  
 OPERATOR'S WELL NO. TV-105  
 API WELL NO. 47-079-1139  
 STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION X STORAGE \_\_\_ DEEP X SHALLOW \_\_\_  
 LOCATION: ELEVATION 978.81 WATERSHED FIVE & TWENTY CREEK  
 DISTRICT TEAYS VALLEY 5 COUNTY PUTNAM  
 QUADRANGLE MOUNT OLIVE 490 081 SE9 Glenwood  
 SURFACE OWNER V. COURTLANDT SMITH II ACREAGE 61  
 OIL & GAS ROYALTY OWNER " " LEASE ACREAGE 61

PROPOSED WORK: DRILL X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X 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 4500  
 WELL OPERATOR TEAVEE OIL & GAS INC. DESIGNATED AGENT D. K. BOWERS  
 ADDRESS CHARLESTON WV ADDRESS CHARLESTON WV

DEEP WELL 6-6 Hurricane Creek (20)

COUNTY NAME PERMIT

FORM IV-6 (8-78)

WR-35

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FEB 18 1987



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date January 30, 1987  
Operator's Well No. TV-105  
Farm Chapman/Smith #1  
API No. 47 - 079 - 1139

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: 978.81 Watershed Five & Twenty Mile Creek  
District: Teays Valley County Putnam Quadrangle Mount Olive

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 V. Courtlandt Smith II  
ADDRESS P. O. Box 27, Winfield, WV 25213

MINERAL RIGHTS OWNER Same as above  
ADDRESS \_\_\_\_\_

OIL AND GAS INSPECTOR FOR THIS WORK Jerry  
Tephabock ADDRESS Ripley, WV

PERMIT ISSUED November 22, 1985

DRILLING COMMENCED December 4, 1985

DRILLING COMPLETED December 9, 1985

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

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10 <sup>3/4</sup>	500 ft.	500 ft.	270
9 5/8			
8 5/8			
7	2389	2389	175
5 1/2			
4 1/2		4603	400
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 4540 feet

Depth of completed well 4627 feet Rotary X / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 210 feet; Salt 912 feet

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

OPEN FLOW DATA

Producing formation Brown Shale Pay zone depth 3650 feet

Gas: Initial open flow Not Taken Mcf/d Oil: Initial open flow N/A Bbl/d

Final open flow (58) Mcf/d Final open flow N/A Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 860 psig (surface measurement) after 48 hours shut in

(If applicable due to multiple completion--)

Second producing formation N/A Pay zone depth \_\_\_\_\_ feet

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

Final open flow N/A 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)

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

Perforated 1st stage 20 holes 3700'-4018', stimulated w/ 500 gallon HCl treated w/35,000 lbs. 20/40 sand and 5,000 lbs. 10/20 sand, 90 quality foam. Set large mouth frac plug 3586 2nd stage 25 holes from 3039'-3561' stimulated w/500 gallon HCl treated w/35,000 lbs 20/40 sand and 5,000 lbs 10/20 sand in a 90 quality foam. Total fluid 204 bbl total N/2 1,176800 scf.

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	9	
Sand & red rock			9	100	
Red rock			100	200	
Sand			200	600	Fresh water 210
Slate			600	890	
Sand			890	1461	Salt water 912
Slate			1461	1496	
Salt sand			1496	1773	
Maxton sand			1773	1790	
Sand			1790	1851	
Little Lime			1851	1880	
Pencil cave			1880	1881	
Big lime			1881	2101	
Keener sand			2101	2119	
Slate and shells			2119	2145	
Big injun sand			2145	2215	
Gray shale			2215	2550	
Coffee shale			2550	2564	
Berea sand			2564	2593	Gas show
Gray shale			2593	2799	Gas show
Gordon stray			2799	2811	
Gray shale			2811	3650	Gas show
Brown shale			3650	4018	Gas show
White slate			4018	4340	
Marcellus shale			4340	4476	
Corniferous lime			4476	4534	
Oriskany sand			4534	4544	Gas show
Corniferous lime			4544	4627 TD	

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FEB 18 1987

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Teavee Oil & Gas, Inc.

Well Operator

By: Luane Bowen Designated Agent

Date: 2/2/87

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: November 18, 19 85  
 2) Operator's Well No. TV-105  
 3) API Well No. 47 079-1139  
 State County Permit

NOV 22 1985

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       )  
 5) LOCATION: Elevation: 958.7 Watershed: Five & Twenty Mile Creek  
 District: Trays Valley 869 County: Putnam Quadrangle: Mount Olive  
 6) WELL OPERATOR Teavee Oil & Gas CODE: 48900 7) DESIGNATED AGENT Duane K. Bowers  
 Address 1901 Kanawha Valley Bldg. Charleston WV 25301 Address PO Box 27 Winfield WV 25213  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Carlos Hively Address Elkview WV  
 9) DRILLING CONTRACTOR: Name Clint Hurt & Associates Address P.O. Box 1973 Midland TX 79702  
 10) PROPOSED WELL WORK: Drill X / Drill deeper        / Redrill        / Stimulate X  
 Plug off old formation        / Perforate new formation         
 Other physical change in well (specify)         
 11) GEOLOGICAL TARGET FORMATION, Oriskany Sand 475  
 12) Estimated depth of completed well, 4500 feet  
 13) Approximate true depths: Fresh, 275 feet; salt, 900 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									
Fresh water	<u>10 3/4</u>		<u>35</u>		<u>X</u>	<u>500</u>	<u>500</u>	<u>To surface</u>	Kinds <u>by rule 15.05</u>
Coal									Size
Intermediate	<u>7</u>		<u>20</u>	<u>X</u>		<u>2250±</u>	<u>2250±</u>	<u>50 SKS</u>	
Production									Depths set:
Tubing	<u>3 1/2</u>		<u>9.2</u>	<u>X</u>			<u>4500</u>	<u>200 sacks</u>	<u>as required</u>
Liners									by <u>rule 15-01</u>
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-079-1139

Date November 22 1985

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 November 22, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee	WPCP	S&E	Other
	<u>AB</u>	<u>MN MN</u>		<u>8857 MN</u>	<u>MN</u>		

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.