



1) Date: January 10, 19 83  
 2) Operator's Well No. T.V. 101  
 3) API Well No. 47 - 079 - 110  
 State West Virginia County Putnam Permit 25213

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil  Gas  B (If "Gas", Production  Underground storage  Deep  Shallow )
- 5) LOCATION: Elevation: 571.1' Watershed: Big Buffalo Creek  
 District: Union County: Putnam Quadrangle: Winfield
- 6) WELL OPERATOR Tea Vee Oil & Gas Inc. 11) DESIGNATED AGENT Howard May  
 Address Box 27 Winfield W.Va. Address Box 27 Winfield, W.Va.
- 7) OIL & GAS ROYALTY OWNER Centennial Homes 12) COAL OPERATOR None  
 Address \_\_\_\_\_ Address \_\_\_\_\_
- 8) SURFACE OWNER Tea Vee Oil & Gas Inc. 13) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Address Box 27 Winfield, W.Va. Name None  
 Acreage 1.435 acres Address \_\_\_\_\_
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:  
 Address TRAVEE O & G INC Name None  
 Address \_\_\_\_\_
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED  
 Name Kenneth Botcher Address \_\_\_\_\_  
 Address RFD 1 Barboursville, W.Va.  
736-4885
- 15) PROPOSED WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Fracture or stimulate \_\_\_\_\_  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_  
 Other physical change in well (specify) \_\_\_\_\_
- 16) GEOLOGICAL TARGET FORMATION, Marcellus
- 17) Estimated depth of completed well, 4100' feet
- 18) Approximate water strata depths: Fresh, 100 feet; salt, 1400-1750 feet.
- 19) Approximate coal seam depths: NONE Is coal being mined in the area? Yes \_\_\_\_\_ / No

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	10 3/4		32		<input checked="" type="checkbox"/>	300	300	100 SAC	Kinds <u>NONE</u>
Fresh water									
Coal	<u>NONE</u>								Sizes
Intermediate	7		10	<input checked="" type="checkbox"/>		1820	1820	150 SAC	Depths set
Production									
Tubing	3		9.5	<input checked="" type="checkbox"/>			4100		Perforations:
Liners									Top Bottom

- 21) EXTRACTION RIGHTS  
 Check and provide one of the following:  
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.  
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
- 22) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes  No
- If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
- 23) Required Copies (See reverse side.)
- 24) 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.
- Notary: David W. Kimberling Signed: John Bolpin  
 My Commission Expires 1-26-92 Its: V. Price

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-079-1110 Date January 21 19 83

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. 10) 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.)

Permit expires September 21, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>MARKET</u>	Agent: <u>OK</u>	Plat: <u>OK</u>	Casing: <u>OK</u>	Fee: <u>3311</u>
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T. Price  
Administrator, Office of Oil and Gas

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.  
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
  - (1) A brief description of the tract of land including the district and county wherein the tract is located;
  - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
  - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
  - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.

**24) 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 §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

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 \_\_\_\_\_

Date JAN 7 1983  
Well No. HARTLY, No 2  
API No. 47 - 079 - 1110  
State County Permit

STATE OF WEST VIRGINIA  
OFFICE OF OIL AND GAS

Company Name TEA VEE OIL & GAS Designated Agent HOWARD MAY  
Address 1901 KANAWAHA VALLEY BLDG, CHAR. W. V. Address 1901 KANAWAHA VALLEY BLDG, CHAR. W. V.  
Telephone 342-2125 Telephone 342-2125  
Landowner TEA VEE OIL & GAS Soil Cons. District WESTERN  
Revegetation to be carried out by HOWARD MAY (Agent)  
This plan has been reviewed by Western SCD. All corrections,  
and additions become a part of this plan. 1-7-83 Clay Edwards  
(Date) (SCD Agent)

Access Road	Location
Structure <u>16W. 5/A 62</u> (A)	Structure _____ (1)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (B)	Structure _____ (2)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____
Structure _____ (C)	Structure _____ (3)
Spacing _____	Material _____
Page Ref. Manual _____	Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary.

Revegetation

Treatment Area I	Treatment Area II
Lime _____ Tons/acre or correct to pH <u>7.0</u>	Lime _____ Tons/Acre or correct to pH <u>7.0</u>
Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>500</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>1 1/2</u> Tons/Acre	Mulch <u>1 1/2</u> Tons/Acre
Seed* <u>KENTUCKY 31 FESCUE 35</u> lbs/acre <u>REDTOP 5</u> lbs/acre	Seed* <u>KENTUCKY 31 FESCUE 35</u> lbs/acre <u>REDTOP 5</u> lbs/acre

\*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

Attach or photocopy section of involved Topographic map. Quadrangle WINFIELD

Legend:  Well Site  
 Access Road

RECEIVED  
JAN 19 1983

OIL & GAS DIVISION  
DEPT. OF MINES



079-1110







STATE OF PENNSYLVANIA,

COUNTY OF \_\_\_\_\_

PUTNAM COUNTY COURT  
D. M. Johnson  
CLERK

On the \_\_\_\_\_ day of \_\_\_\_\_

before me the subscriber,  
was this day presented to me in my office,  
and thereupon, together with the certificate,  
herein annexed, is admitted to record.

before me the subscriber,

personally came the within named

who in due form of law acknowledged the foregoing Indenture to be \_\_\_\_\_ act and deed, and desires that the same be recorded as such.

Witness my hand and \_\_\_\_\_ seal the day and year aforesaid.

[SEAL]

STATE OF WEST VIRGINIA,

COUNTY OF Putnam

To-wit:

I, a Notary Public of said County of Putnam do certify that Squire Hartley and Cora B. Hartley whose names are signed to the within writing, bearing date May-23 A. D. 1949, ha ~~ve~~ this day acknowledged the same before me, in my said county.

Given under my hand and official seal this 15<sup>th</sup> day of August A. D. 1949.

Rose L. Lavender - N.P.

my commission expires Aug-8-1954

Lease No. \_\_\_\_\_ Page No. \_\_\_\_\_

# Oil and Gas Lease

FROM AUG 25 49 AM TO \_\_\_\_\_

RECORDED IN BOOK - PAGE 42-544

Address \_\_\_\_\_ County \_\_\_\_\_

DATE \_\_\_\_\_ 19 \_\_\_\_\_

Term \_\_\_\_\_ No. of Acres \_\_\_\_\_

Location \_\_\_\_\_ Township District \_\_\_\_\_ County \_\_\_\_\_

State of \_\_\_\_\_

Rec'd for Record \_\_\_\_\_ 19 \_\_\_\_\_

Recorded \_\_\_\_\_ 19 \_\_\_\_\_

In Book \_\_\_\_\_ Page \_\_\_\_\_

Recorder \_\_\_\_\_ County \_\_\_\_\_

SUTTON PRINTING CO., WAYNESBURG, PA.

STATE OF OHIO,

COUNTY OF \_\_\_\_\_

ss:

On this \_\_\_\_\_ day of \_\_\_\_\_

A. D. 19 \_\_\_\_\_

before me \_\_\_\_\_ in and for said county, in said State personally appeared the within named \_\_\_\_\_

and acknowledged that \_\_\_\_\_ did sign and seal the foregoing instrument, and that the same is voluntary act and deed for the uses and purposes therein mentioned.

Witness my hand and official seal the day and year aforesaid.

[SEAL]



Company Tevee Oil & Gas Co Time called for 6:00 Time on job 6:00  
 P. O. - Street \_\_\_\_\_ Job started 7:00 Finished 8:00  
 City - State MINFIELD WV Waiting time \_\_\_\_\_ Road Condition Mud  
 Lease Hartley Well No. 70-101 Tractor Used Mues  
 County Putnam State WV Contractor Joe Ruggis Unit No. 91-122

SALES SERVICE ENGINEER WORK DATA

It is mutually agreed by both parties involved that WELL SERVICE, INC., equipment No. 91-122 is leased to \_\_\_\_\_ and will operate under their supervision. Our Engineer, and his crew will, in a competent and cooperative manner, efficiently operate the equipment and with additional assistance, if needed, to be furnished by the lessee. Due to many unknown and variable conditions, of which we have no mutual knowledge or control, it requires WELL SERVICE, INC. not to assume any responsibility toward unsuccessful results or incompleteness of the operation.

Sales Service Engineer Don Harry Dattel Crew \_\_\_\_\_  
 Company \_\_\_\_\_ Supervisor Wimmer

Type Operation: \_\_\_\_\_ Materials: \_\_\_\_\_ General Charges: \_\_\_\_\_

Casing pressure cement	Name <u>Cement</u>	Job _____	Type _____
Casing Balance cement	Type <u>BULK</u>	Extra Pumping _____	Hrs. _____
Casing Comb. Gel-cement	Sacks <u>150CUFT</u>	Wait on Job _____	Hrs. _____
Casing Squeeze cement	Gallons _____	Mileage _____	R. T _____
Prepare Mud _____	Wt. per gal. _____	Material <u>825.00</u>	Name <u>150CUFT cement</u>
Plugging Gel-cement	_____	Material <u>37.00</u>	Name <u>200# Galciumum</u>
Pumping Casing-Tubing	_____	Material _____	Name _____
Formation Cement Squeeze	Other _____	Material _____	Name _____
Formation Chem. Squeeze	Viscosity _____	Material _____	Name _____
Killing well mud-water	Temp. _____	Extra Unit _____	Hrs. _____
Acidizing _____	Hole Condition: _____	Stand By Unit _____	Type _____
Cement Plug Back _____	Fluid _____	Trans. _____	Type <u>Material</u>
_____	Gas @ _____	Chemical _____	Gals. _____
Special Tool Used _____	Pipe leaking _____	Special Plugs _____	Type _____
_____	Shoe leaking _____	TOTAL CHARGES <u>1612.00</u>	_____

Normal pump pressure 150 Max. 450 COMPLETION REPORT  
 Return circulation at surface Cement F

Return circulation of materials \_\_\_\_\_

General Remarks: 150cu ft cement 200# Galciumum  
Displaced outside 103# casing to surface

PACKER SET \_\_\_\_\_ TUBING SIZE \_\_\_\_\_  
 Casing Size 10 3/4 \_\_\_\_\_  
 \_\_\_\_\_ Wt. \_\_\_\_\_  
 \_\_\_\_\_ Depth 350 \_\_\_\_\_

Size \_\_\_\_\_  
 Open Hole \_\_\_\_\_  
 Bridge Top \_\_\_\_\_  
 Depth \_\_\_\_\_  
 JUN - 8 1983

OIL & GAS DIVISION  
 Acidizing or Chemical Data  
 Name Formation \_\_\_\_\_  
 Character Formation \_\_\_\_\_  
 Gas/Oil Volume \_\_\_\_\_  
 Rock Pressure \_\_\_\_\_  
 Type Acid/Chemical \_\_\_\_\_  
 Gallons \_\_\_\_\_ %  
 #1 Stage \_\_\_\_\_ #2 \_\_\_\_\_  
 1st Pay \_\_\_\_\_  
 2nd Pay \_\_\_\_\_  
 Injection Rate \_\_\_\_\_

DATE 2/19/83 WELL SERVICE, INC. 19TH FLOOR KANAWHA VALLEY BLDG., CHARLESTON, W. VA. 25301

FIELD SERVICE TICKET NO. (DA) 10328

Company Teavee Oil & Gas Co Time called for 3 AM Time on job 3:30 AM  
 P. O. - Street \_\_\_\_\_ Job started \_\_\_\_\_ Finished 8:30 AM  
 City - State Minerfield Waiting time \_\_\_\_\_ Road Condition Mud  
 Lease Harley Well No. TD-101 Tractor Used W/CM  
 County Putnam State WV Contractor Tom Aug 15 Unit No. 91122

SALES SERVICE ENGINEER WORK DATA

It is mutually agreed by both parties involved that WELL SERVICE, INC., equipment No. 91-122 is leased to \_\_\_\_\_ and will operate under their supervision. Our Engineer, and his crew will, in a competent and cooperative manner, efficiently operate the equipment and with additional assistance, if needed, to be furnished by the lessee. Due to many unknown and variable conditions, of which we have no mutual knowledge or control, it requires WELL SERVICE, INC. not to assume any responsibility toward unsuccessful results or incompleteness of the operation.

Sales Service Engineer Dan Hardy Dattel Crew \_\_\_\_\_  
 Company \_\_\_\_\_ Supervisor Althe

Type Operation: \_\_\_\_\_ Materials: \_\_\_\_\_ General Charges: \_\_\_\_\_

Casing pressure cement  
 Casing Balance cement  
 Casing Comb. Gel-cement  
 Casing Squeeze cement  
 Prepare Mud  
 Plugging Gel-cement  
 Pumping Casing-Tubing  
 Formation Cement Squeeze  
 Formation Chem. Squeeze  
 Killing well mud-water  
 Acidizing  
 Cement Plug Back

Name Cement 1 Job \_\_\_\_\_ Type \_\_\_\_\_  
 Type BULK Extra Pumping \_\_\_\_\_ Hrs. \_\_\_\_\_  
 Sacks 100 CFT Wait on Job \_\_\_\_\_ Hrs. \_\_\_\_\_  
 Gallons \_\_\_\_\_ Mileage \_\_\_\_\_ R. T. \_\_\_\_\_  
 Wt. per gal. \_\_\_\_\_ Material 55000 Name 100 CFT Cement  
 Ad-mix 200# Calcium Material 37.00 Name 200# Calcium  
 Other \_\_\_\_\_ Material \_\_\_\_\_ Name \_\_\_\_\_  
 Viscosity \_\_\_\_\_ Material \_\_\_\_\_ Name \_\_\_\_\_  
 Temp. \_\_\_\_\_ Extra Unit \_\_\_\_\_ Hrs. \_\_\_\_\_

Hole Condition: \_\_\_\_\_  
 Fluid \_\_\_\_\_  
 Gas @ \_\_\_\_\_  
 Pipe leaking \_\_\_\_\_  
 Shoe leaking \_\_\_\_\_

Normal pump pressure 150 Max. 1000  
 Return circulation at surface vels

Return circulation of materials \_\_\_\_\_  
 General Remarks: 100 CFT Cement 200# Calcium displaced on site 7" casing with Rubber Plug

Casing Size 7" Wt. 20  
 Depth 1897

PACKER SET \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_

Acidizing or Chemical Data

Name Formation \_\_\_\_\_  
 Character Formation \_\_\_\_\_  
 Gas/Oil Volume \_\_\_\_\_  
 Rock Pressure \_\_\_\_\_  
 Type Acid/Chemical \_\_\_\_\_  
 Gallons \_\_\_\_\_ %  
 #1 Stage \_\_\_\_\_ #2 \_\_\_\_\_  
 1st Pay \_\_\_\_\_  
 2nd Pay \_\_\_\_\_  
 Injection Rate \_\_\_\_\_



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JUN - 8 1983



OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date Apr. 4 1983  
Operator's ###  
Well No. T.V 101  
Farm Centinial homes  
API No. 47 - 079 - 1110

IV-35  
(Rev 8-81)

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     / Shallow     /)

LOCATION: Elevation: 571.1 Watershed Big Buffalo Creek  
District: Union County Putnam Quadrangle    

COMPANY TeaVee Oil & Gas co.

ADDRESS Box 27 Winfield wv 25213

DESIGNATED AGENT Howard May

ADDRESS Box 27 Winfield Wv 25213

SURFACE OWNER Tea Vee Oil & Gas Co

ADDRESS Box 27 Winfield Wv 25213

MINERAL RIGHTS OWNER Squire Hartlow

ADDRESS    

OIL AND GAS INSPECTOR FOR THIS WORK    

K. Butcher ADDRESS Barboursville Wv

PERMIT ISSUED Jan. 10. 1983

DRILLING COMMENCED Jan Feb 6 1983

DRILLING COMPLETED Feb 11 1983

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"	340	340	150 Cu Ft
9 5/8			
8 5/8			
7	1893	1893	100 Bu Ft
5 1/2			
4 1/2	3804	3804	600 Cu Ft
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marc. Shale Depth 3820 feet

Depth of completed well     feet Rotary X / Cable Tools    

Water strata depth: Fresh 94 feet; Salt 821 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Br. Shale Pay zone depth 3690 feet

Gas: Initial open flow 6000 Mcf/d Oil: Initial open flow     Bbl/d

Final open flow 70.000 Mcf/d Final open flow     Bbl/d

Time of open flow between initial and final tests     hours

Static rock pressure 360 psig (surface measurement) after 36 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 24 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.  
 PERFORATE 4½" CASING 30 HOLES FROM 3354 TO 3779 FT  
 FRACKED BY HALIBURTON WITH FOAM FRAC 638.000 SCF N2 60000 # 20/40 SAND

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			00	20	
Sand			20	38	
Silt			38	94	
Sand			94	96	Fresh Water
Red Rock			96	284	
Sand			284	394	
Red Rock			394	518	
Sand			518	525	
Red Rock			525	560	
Slate	Gray		560	596	
Sand			596	670	
Slate	White		670	821	
Sand			821	914	Salt Water
Slate & Shells			014	1086	
Sand			1086	1101	
Slate & Shells			1101	1141	
Lime	Black		1141	1160	
Slate & Shells			1160	1222	
Sand			1222	1261	
Slate			1261	1331	
Sand	Salt		1331	1508	Salt Water
Little Lime			1508	1528	
Pencil			1528	1530	
Big Lime			1530	1696	
Keener Sand			1696	1716	
Big Injun			1716	1783	
Lime			1783	2061	
Slate			2061	2096	
Coffee Shale			2196	2203	
Berea Sand			2203	2233	
Slate			2233	3195	
Shale	Black		3195	3251	
Slate			3251	3331	
Shale	Brown		3331	4404	
Shale	White		3404	3540	
Shale	Brown		3540	3620	
Slate			3620	3640	
Shale	Brown		3640	3725	
Slate	White		3725	3750	
Shale	Brown		3750	3810	
Slate	White		3810	3820	

(Attach separate sheets as necessary)

TEAVEE OIL & GAS CO

Well Operator

By: A. G. May, Jr.  
 Date: APR. 26 1983

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  
OIL AND GAS WELLS DIVISION

RECEIVED

FEB 10 1983

OIL AND GAS DIVISION  
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 47-079-1110

Oil or Gas Well  
(KIND)

Company Tease oil & gas co.  
 Address Winfield, wva.  
 Farm Hartley  
 Well No. 2  
 District Union County Putnam  
 Drilling commenced 2-83  
 Drilling completed 1/4 = pipe at 350- Total depth  
 Date shot \_\_\_\_\_ Depth of shot \_\_\_\_\_  
 Initial open flow \_\_\_\_\_ /10ths Water in \_\_\_\_\_ Inch  
 Open flow after tubing \_\_\_\_\_ /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet \_\_\_\_\_ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			Kind of Packer
16			
13			
10 <u>10 3/4"</u>			<u>350 Cemented to surface by well service</u>
8 1/4			Depth set
6 3/8			
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
 NAME OF SERVICE COMPANY \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Drillers' Names Richard Penson  
 Remarks: Contr. F.W.D. Drilling Co.  
Pat O.R.

3-7-83  
DATE

503 K. C. Butcher  
DISTRICT WELL INSPECTOR



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

FINAL INSPECTION REQUEST  
INSPECTOR'S COMPLIANCE REPORT

**RECEIVED**  
MAY 29 1984

OIL & GAS DIVISION  
DEPT. OF MINES

Permit No. 47-079-1110 County PUTNAM  
Company TEA VEE OIL & GAS Farm UNION  
Inspector JERRY HOLCOMB Well No. 101  
Date JUNE 17 1983

RULE	DESCRIPTION	IN COMPLIANCE	
		Yes	No
23.06	Notification Prior to starting Work	___	___
25.04	Prepared before Drilling to prevent waste	___	___
25.03	High-Pressure Drilling	___	___
16.01	Required Permits at wellsite	___	___
15.03	Adequate Fresh Water Casing	___	___
15.02	Adequate Coal Casing	___	___
15.01	Adequate Production Casing	___	___
15.04	Adequate Cement Strength	___	___
23.02	Maintained Access Roads	✓	___
25.01	Necessary Equipment to prevent Waste	___	___
23.03	Reclaimed Drilling Site	✓	___
23.04	Reclaimed Drilling Pits	✓	___
23.05	No surface or underground Pollution	✓	___
7.03	Identification Markings	✓	___

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

SIGNED: Jerry Holcomb  
DATE: 5-23-84







State of West Virginia  
Department of Mines  
Oil and Gas Division  
Charleston 25305

WALTER N. MILLER  
DIRECTOR

THEODORE M. STREIT  
ADMINISTRATOR

May 30, 1984

Teavee Oil & Gas, Inc.  
1901 Kanawha Valley Building  
Charleston, W.Va. 25301

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
079-0912	Hattie Fewell etal. # 98	Buffalo
079-1105	Hoffman Construction # C-25	Scott
079-1110	Squire & Cora Hartly # 101	Union

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.....

Very truly yours,

Theodore M. Streit, Administrator  
Office of Oil & Gas-Dept. Mines

TMS/ Chm

Company Trivire Div Gas Co Time called for \_\_\_\_\_ Time on job \_\_\_\_\_  
 P. O. - Street 1901 Kan. Valley Bldg Job started \_\_\_\_\_ Finished \_\_\_\_\_  
 City - State Charleston W. Va Waiting time \_\_\_\_\_ Road Condition \_\_\_\_\_  
 Lease Hortley Well No. 70-101 Tractor Used 2  
 County Put State WV Contractor Gradenout Unit No. 97-12

SALES SERVICE ENGINEER WORK DATA

It is mutually agreed by both parties involved that WELL SERVICE, INC., equipment No. 94-172 is leased to \_\_\_\_\_ and will operate under their supervision. Our Engineer, and his crew will, in a competent and cooperative manner, efficiently operate the equipment and with additional assistance, if needed, to be furnished by the lessee. Due to many unknown and variable conditions, of which we have no mutual knowledge or control, it requires WELL SERVICE, INC. not to assume any responsibility toward unsuccessful results or incompletion of the operation.

Sales Service Engineer Myrle N. Harty Dorell Crew \_\_\_\_\_  
 Company \_\_\_\_\_ Supervisor Phony

Type Operation: \_\_\_\_\_ Materials: \_\_\_\_\_  
 Casing pressure cement Name Cement  
 Casing Balance cement Type Bulk  
 Casing Comb. Gel-cement Sacks 450 CWT  
 Casing Squeeze cement Gallons \_\_\_\_\_  
 Prepare Mud Wt. per gal. \_\_\_\_\_  
 Plugging Gel-cement Material \_\_\_\_\_  
 Pumping Casing-Tubing Material \_\_\_\_\_  
 Formation Casing Squeeze Material 2587.50  
 Formation Chem. Squeeze Name 450 CWT Cement  
 Killing well mud-water Viscosity \_\_\_\_\_  
 Acidizing Material Name \_\_\_\_\_  
 Cement Plug Back Xtra Unit \_\_\_\_\_  
 Stand By Unit \_\_\_\_\_  
 Trans. Type Always Cement  
 Fluid \_\_\_\_\_ Gals. \_\_\_\_\_  
 Gas @ \_\_\_\_\_  
 Pipe leaking \_\_\_\_\_  
 Shoe leaking \_\_\_\_\_

General Charges:

Job \_\_\_\_\_ Type type & trans  
 Xtra Pumping \_\_\_\_\_ Hrs. \_\_\_\_\_  
 Wait on Job \_\_\_\_\_ Hrs. \_\_\_\_\_  
 Mileage \_\_\_\_\_ R. T. \_\_\_\_\_  
 Material Name \_\_\_\_\_  
 Material Name \_\_\_\_\_  
 Material Name \_\_\_\_\_  
 Material Name \_\_\_\_\_  
 Xtra Unit \_\_\_\_\_  
 Stand By Unit \_\_\_\_\_  
 Trans. Type \_\_\_\_\_  
 Fluid \_\_\_\_\_  
 Gas @ \_\_\_\_\_  
 Pipe leaking \_\_\_\_\_  
 Shoe leaking \_\_\_\_\_

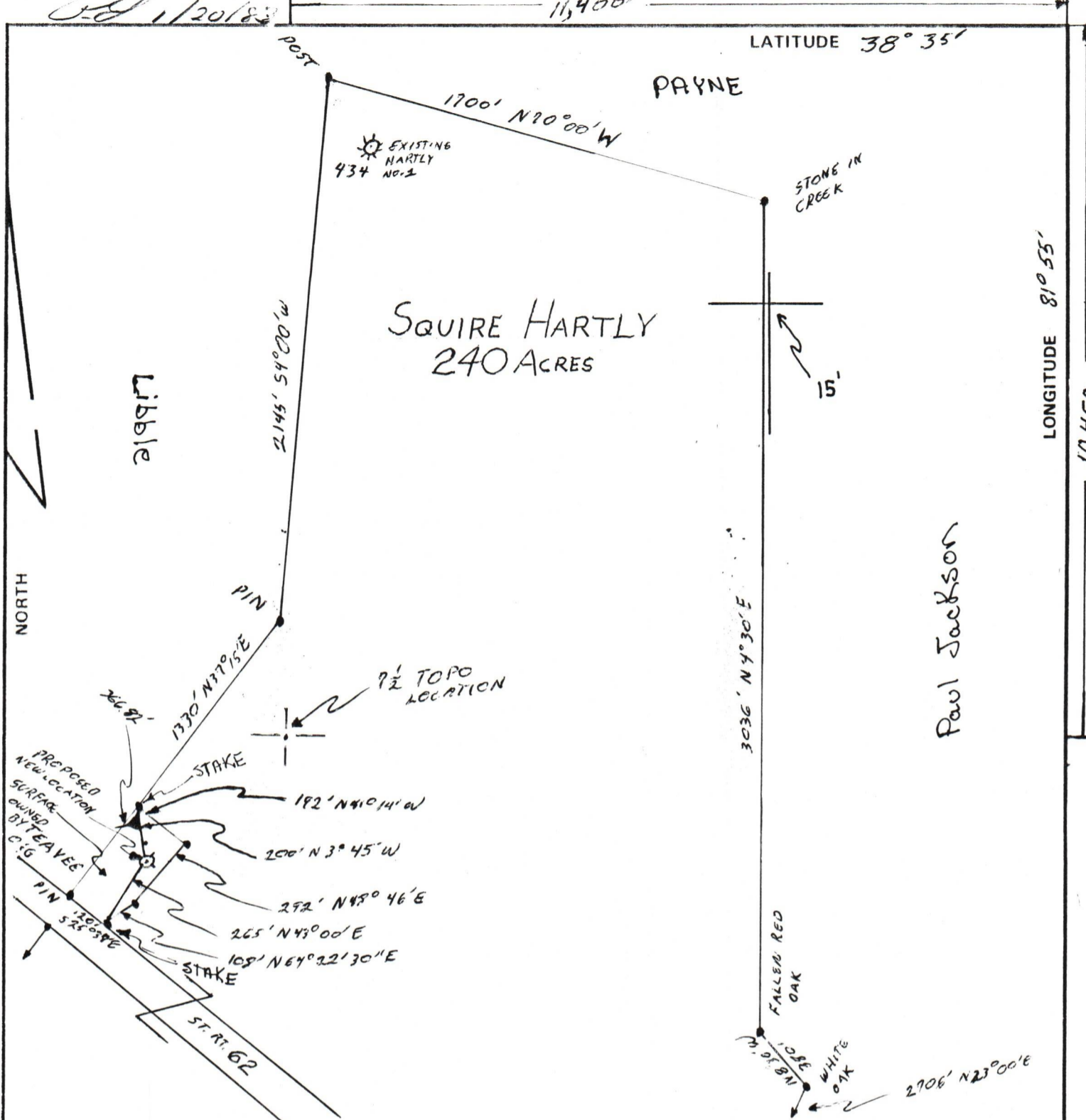
COMPLETION REPORT

Return circulation at surface \_\_\_\_\_  
 Return circulation of materials \_\_\_\_\_

General Remarks: 3/9/83 4 1/2 - 125 CWT Cement no Press  
3/14/83 " " " " " "  
3/15/83 " " " " " "  
3/15/83 " " " " " "  
Stopped Plug 20' above Per

Casing Size 4 1/2 Wt. \_\_\_\_\_  
 TUBING SIZE \_\_\_\_\_  
 PACKER SET \_\_\_\_\_  
 Depth 3817'  
 Total Depth \_\_\_\_\_  
 Bridge Top \_\_\_\_\_  
 Perm # 47094-110  
 2 HOLES SERVICE

Acidizing or Chemical Data  
 Name Formation \_\_\_\_\_  
 Character Formation \_\_\_\_\_  
 Gas/Oil Volume \_\_\_\_\_  
 Rock Pressure \_\_\_\_\_  
 Type Acid/Chemical \_\_\_\_\_  
 Gallons \_\_\_\_\_  
 #1 Stage \_\_\_\_\_ #2 \_\_\_\_\_  
 1st Pay \_\_\_\_\_  
 2nd Pay \_\_\_\_\_  
 Injection Rate \_\_\_\_\_



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1"=500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION U.S. C.G. Survey Rumber Station elev. 575'

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 C. [Signature]  
 R.P.E. 375 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE JANUARY 5, 1983  
 OPERATOR'S WELL NO. 101  
 API WELL NO. 47-079-1110  
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS,") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 571.1' WATER SHED BUFFALO CREEK & KANAWAHA RIVER  
 DISTRICT UNION COUNTY PUTNAM  
 QUADRANGLE WINFIELD  
 SURFACE OWNER Teavee Oil & Gas ACREAGE 1.435  
 OIL & GAS ROYALTY OWNER Centinial Homes LEASE ACREAGE 240  
 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 Marcellous ESTIMATED DEPTH 4900'  
 WELL OPERATOR Teavee Oil & Gas DESIGNATED AGENT H. May  
 ADDRESS 1901 Kanawaha Valley Bldg. Char. W. Va. ADDRESS Same

FORM IV-6 (8-78) H. T. HALL

DOT-1110