

Date: Nov. 23, 1982

RAINTREE OIL CO.  
GLADYS ELY UNIT  
#2 OMNI UNIT

LE-100  
HUBBARD  
SPRINGS-7 1/2

Operator's  
Well No. Ely-1

REPORT OF COMPLETION OF WELL WORK  
IF DRILLING, REDRILLING OR DEEPENING IS INVOLVED

DRILLING CONTRACTOR Stone Oilwell Completions

Address: P. O. Box 2768 Crossville, TN 38555  
Telephone: \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Trenton Limestone

DEPTH OF COMPLETED WELL 1820 feet

DRILLING RIG Rotary X/ Cable tool X/

GEOLOGICAL DATA

	Depth		Thickness
	Top	Bottom	

Fresh water: None

Salt water: None

Coal seams: None

MINING IN AREA  
Mined  
Yes No Out

Oil and gas: 1518' - 1820'

Name  
Reedville Shale - Trenton Limestone

The data on depth of strata is based on the source(s) checked below:  
\_\_\_\_ Applicant's own drilling experience in the area  
\_\_\_\_ Information supplied by the coal operator in the area  
\_\_\_\_ Information already in the possession of the Inspector  
X As follows: information from previous wells drilled in area

OTHER GENERAL INFORMATION

An electric log survey was \_\_\_/ was not X/ conducted pursuant to Code of Virginia § 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was X/ was not \_\_\_/ run for other purposes. This survey did \_\_\_/ did not X/ disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia § 45.1-333.B.3.

Deviation surveys were \_\_\_/ were not X/ required under Code of Virginia § 45.1-333.C "to the bottom of the lowest published coal seam depth".

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_/ was not X/ required under Code of Virginia § 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

CHANGES IN THE PERMITTED WELL WORK

The well operator did \_\_\_/ did not X/ make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Ely-1

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes \_\_\_ / No X /  
If "Yes", was a coal protection string set to the red shales? Yes \_\_\_ / No X /

PROGRAM DETAILS

Size	Top	Bottom	Length	Perforated	
				From	To
<u>Conductor</u> 9 3/4"	0'	50	50'		

Casing circulated and cemented in to the surface: 7" O.D. cemented to 904'  
with returns to surface

Coal protection casing set under the special rule of Code of Virginia § 45.1-334.B:  
N/A

Other casing and tubing left in the well: 4" O.D. casing to 1750' with  
set-down packer at 1720' - 2 3/8" production tubing set at 1790'

Liners left in well, under Code of Virginia § 45.1-336 or otherwise:  
None

Other casing used in drilling but not left in the well:  
None

<u>Packers or bridge plugs:</u>	<u>Kind</u>	<u>Size</u>	<u>Set At</u>
	Set-down	6 3/4"	1720'

REMARKS (SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)

Shut-down at 1750' 8-26-82 to 11-6-82 Testing

SAMPLES AND CUTTINGS

will \_\_\_ / will not \_\_\_ / be available for examination by a member of the  
Virginia Geological Survey;  
will X / will not \_\_\_ / be furnished the Virginia Geological Survey upon  
request; previously submitted  
will \_\_\_ / will not \_\_\_ / require sacks to be furnished by the Survey.

DRILLER'S LOG

Compiled by \_\_\_\_\_

<u>Geologic Age</u>	<u>Formation</u>	<u>General Lithology</u>	<u>Color</u>	<u>Depth (feet)</u>		<u>Thickness</u>	<u>Remarks</u>
				<u>Top</u>	<u>Bottom</u>		
Silurian	Hancock	Dolomite	gray	0	98'	98'	
Silurian	Clinton	Shale	red/green	98'	376'	278'	
Silurian	Clinch	Sand- stone	white/green	376'	632'	256'	
Ordovician	Sequatchie	silt- stone	red/green	632'	982'	350'	
Ordovician	Reedville	shale limestone	gray	982'	1358'	376'	
Ordovician	Trenton	Limestone	gray	1358'	1820'	462'	

(Complete on supplemental sheets as necessary.)

Date: Nov. 23, 1982

Operator's  
Well No. Ely-1

APPENDIX TO REPORT OF COMPLETION OF WELL WORK  
ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF

Indicated potential flow: No flow-pump

Before stimulation (if available), 80 Bbl/d  
After stimulation, \_\_\_\_\_ Bbl/d

Gravity and grade: 44° Pennsylvanian

DISCOVERY OF GAS OR INDICATIONS THEREOF

Indicated potential flow:

Before stimulation (if available), \_\_\_\_\_ Bbl/d  
After stimulation, \_\_\_\_\_ Bbl/d

Rock pressure: \_\_\_\_\_ psig

RECORD OF STIMULATION

Full description of stimulation: No stimulation

OK

HUBBARD SPRINGS  
6-5

VDMR Well

API No. 45-105-20529-00-03 Rep. No. \_\_\_\_\_  
DMQ File No. LE-100 (LE-152)

Operator RAINTREE OIL COMPANY (ADKINSON DRILLING COMPANY)

Farm GLADYS ELY UNIT (GLADYS ELY)

Co. Well No. #1 OMNI UNIT (ELY 9)

County LEE Quadrangle HUBBARD SPRINGS - 7 1/2'

Location (UTM) N 4,064,310; E 308,130 UTM Zone 17

(Lat. and Long.) \_\_\_\_\_

Field BEN HUR Province VALLEY AND RIDGE

Elev. (specify) 1782' GR TD 1820' Form at TD TRENTON

Initial Flow - \_\_\_\_\_ Age ORDOVICIAN

Date compl. or abandoned NOVEMBER 23, 1982

Result OIL WELL

Gas Shows \_\_\_\_\_

Gas Pays \_\_\_\_\_

Main Production 1518' TO 1820' Prod. Form. TRENTON

Age ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL

Initial Production 80 BARRELS PER DAY  
FINAL PRODUCTION - 80 BARRELS PER DAY  
Final Flow - \_\_\_\_\_

Oil shows \_\_\_\_\_

Water FW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_  
SW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

Coal \_\_\_\_\_

Plat \_\_\_\_\_ Plotted \_\_\_\_\_ Completion Report X

Drillers Log X Geologic Log \_\_\_\_\_

Samples \_\_\_\_\_ Interval Sheet \_\_\_\_\_

Sample Interval \_\_\_\_\_

Remarks \_\_\_\_\_

Geophysical Logs S.P. \_\_\_\_\_ Res \_\_\_\_\_ Gamma X Neutron \_\_\_\_\_

Density \_\_\_\_\_ Sonic \_\_\_\_\_ Other LITHO DENSITY, TEMPERATURE,  
AUDIO

Stratigraphic Data Source

Formation	Top	Datum (Subsea)	Thickness
HANCOCK	0	1782'	98
CLINTON	98	1684	278
CLINCH	376	1406	256
SEQUATCHIE	632	1150	350
REEDSVILLE	982	800	376
TRENTON	1358	424	462

Remarks

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References

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Released to Open File: Completion FEBRUARY 21, 1983  
Samples NO

(Note: UTM measurements in meters, all others in feet)

OIL AND GAS WELL SUMMARY REPORT

API No.: 45-105-20529-00-03

VDMR Well Rep. No.

Div. Gas & Oil File No.: LE-152

Operator: ADKINSON DRILLING COMPANY

Farm: GLADYS ELY

County: LEE

Co. Well No.: ELY 9

Quadrangle: HUBBARD SPRINGS - 7-1/2'

Location (UTM): N 4,064,430; E 308,810

UTM Zone: 17

Field: BEN HUR

Province: VALLEY AND RIDGE

Elev. (specify): 1782' GR TD: 1820'

Formation at TD: TRENTON

Initial Gas Flow

Age: ORDOVICIAN

Date compl. or abandoned: NOVEMBER 23, 1982

Result: OIL WELL

Gas Shows

Gas Pays

Main Production: 1518' TO 1820'

Producing Formation: TRENTON

Final Gas Flow

Age: ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL.

Initial Oil Production: 80 BARRELS PER DAY.

Final Production: 80 BARRELS PER DAY.

Oil Shows

Water

FW  
SW:

at  
at:

at  
at

at  
at

Coal

Plat

Plotted

Completion Report: X



Drillers Log: X

Geologic Log

Samples

Interval Sheet

Sample Interval

Geophysical Logs

S.P.

Res

Gamma: X

Neutron

Density

Sonic

Other: LITHO DENSITY, TEMPERATURE, AUDIO

Stratigraphic Data Source:

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
HANCOCK	0	1782'	98
CLINTON	98	1684	278
CLINCH	376	1406	256
SEQUATCHIE	632	1150	350
REEDSVILLE	982	800	376
TRENTON	1358	424	462

Remarks:

References:

Released to Open File: Completion: FEBRUARY 21, 1983  
Samples: NO

(Note: UTM measurements in meters, all others in feet)

OIL AND GAS WELL SUMMARY REPORT

API No.: 45-105-20529-00-03

VDMR Well Rep. No.

Div. Gas & Oil File No.: LE-100

Operator: RAINTREE OIL COMPANY

Farm: GLADYS ELY UNIT

County: LEE

Co. Well No.: #1 OMNI UNIT

Quadrangle: HUBBARD SPRINGS - 7-1/2'

Location (UTM): N 4,064,430; E 308,810

UTM Zone: 17

Field: BEN HUR

Province: VALLEY AND RIDGE

Elev. (specify): 1782' GR TD: 1820'

Formation at TD: TRENTON

Initial Gas Flow

Age: ORDOVICIAN

Date compl. or abandoned: NOVEMBER 23, 1982

Result: OIL WELL

Gas Shows

Gas Pays

Main Production: 1518' TO 1820'

Producing Formation: TRENTON

Final Gas Flow

Age: ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL.

Initial Oil Production: 80 BARRELS PER DAY.

Final Production: 80 BARRELS PER DAY.

Oil Shows

Water	FW	at	at	at
	SW:	at:	at	at

Coal

Plat

Plotted

Completion Report: X

Drillers Log: X

Geologic Log

Samples

Interval Sheet

Sample Interval

Geophysical Logs

S.P.

Res

Gamma: X

Neutron

Density

Sonic

Other: LITHO DENSITY, TEMPERATURE, AUDIO

Stratigraphic Data Source:

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
HANCOCK	0	1782'	98
CLINTON	98	1684	278
CLINCH	376	1406	256
SEQUATCHIE	632	1150	350
REEDSVILLE	982	800	376
TRENTON	1358	424	462

Remarks:

References:

Released to Open File: Completion: FEBRUARY 21, 1983  
Samples: NO

(Note: UTM measurements in meters, all others in feet)

Same as

LE-152

no entry <sup>2</sup>  
dulled to Knox

OIL AND GAS WELL  
SUMMARY REPORT

API No. 45-105-20529-00-03 VDMR Well Rep. No. \_\_\_\_\_  
DMQ File No. LE-100

Operator RAINTREE OIL COMPANY

Farm GLADYS ELY UNIT

Co. Well No. # 1. OMNI UNIT

County LEE Quadrangle HUBBARD SPRINGS 7 $\frac{1}{2}$ '

Location (UTM) N4,064,310; E308,130 UTM Zone 17

(Lat. and Long.) \_\_\_\_\_

Field BEN HUR Province VALLEY AND RIDGE

Elev. (specify) 1782' GR TD 1820' Form. at TD TRENTON

Age ORDOVICIAN

Date compl. or abandoned NOVEMBER 23, 1982

Result OIL WELL

Gas Shows \_\_\_\_\_

Gas Pays \_\_\_\_\_

Main Production 1518' TO 1820' Prod. Form. TRENTON

Age ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL

Initial Production 80 BARRELS PER DAY

FINAL PRODUCTION - 80 BARRELS PER DAY

Oil shows \_\_\_\_\_

Water FW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

SW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

Coal \_\_\_\_\_

Plat \_\_\_\_\_ Plotted \_\_\_\_\_ Completion Report x

Drillers Log x Geologic Log \_\_\_\_\_

Samples \_\_\_\_\_ Interval Sheet \_\_\_\_\_

Sample Interval \_\_\_\_\_

Remarks \_\_\_\_\_

Geophysical Logs S.P. \_\_\_\_\_ Res \_\_\_\_\_ Gamma \_\_\_\_\_ Neutron \_\_\_\_\_

Density \_\_\_\_\_ Sonic \_\_\_\_\_ Other \_\_\_\_\_

Stratigraphic Data Source

Formation	Top	Datum (Subsea)	Thickness
HANCOCK	0	1782'	98
CLINTON	98	1684	278
CLINCH	376	1406	256
SEQUATCHIE	632	1150	350
REEDSVILLE	982	800	376
TRENTON	1358	424	462

Remarks

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References

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Released to Open File: Completion FEBRUARY 21, 1983

Samples NO

(Note: UTM measurements in meters, all others in feet)



OIL AND GAS WELL  
SUMMARY REPORT

API No. 45-105-20529-00-03 VDMR Well Rep. No. \_\_\_\_\_  
DMQ File No. LE-100

Operator R & T RAINTREE OIL COMPANY, INC.

Farm GLADYS ELY

Co. Well No. ELY #1

County LEE Quadrangle HUBBARD SPRINGS - 7½'

Location (UTM) N4,064,310; E308,130 UTM Zone 17

(Lat. and Long.) \_\_\_\_\_

Field BEN HUR Province VALLEY AND RIDGE

Elev. (specify) 1782'GR TD 1820' Form. at TD TRENTON

Age ORDOVICIAN

Date compl. or abandoned NOVEMBER 23, 1982

Result OIL WELL

Gas Shows \_\_\_\_\_

Gas Pays \_\_\_\_\_

Main Production \_\_\_\_\_ Prod. Form. TRENTON

Age ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL

Initial Production 80 BARRELS PER DAY

SETTLED PRODUCTION - 3 BARRELS PER DAY

Oil shows 1518' to 1820'

Water FW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

SW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

Coal \_\_\_\_\_

Plat \_\_\_\_\_ Plotted \_\_\_\_\_ Completion Report X

Drillers Log X Geologic Log \_\_\_\_\_

Samples \_\_\_\_\_ Interval Sheet \_\_\_\_\_

Sample Interval \_\_\_\_\_

Remarks \_\_\_\_\_

Geophysical Logs S.P. \_\_\_\_\_ Res \_\_\_\_\_ Gamma \_\_\_\_\_ Neutron \_\_\_\_\_

Density \_\_\_\_\_ Sonic \_\_\_\_\_ Other \_\_\_\_\_

Stratigraphic Data Source

Formation.	Top	Datum (Subsea)	Thickness
HANCOCK	0	+1782	98
CLINTON	98	+1684	278
CLINCH	376	+1406	256
SEQUATCHIE	632	+1150	350
REEDSVILLE	982	+ 800	376
TRENTON	1358	+ 424	462

Remarks

References

Released to Open File: Completion FEBRUARY 21, 1983

Sample NO

(Note: UTM measurements in meters, all others in feet)



*R & T RAINTREE OIL CO, INC.*  
*GLADYS ELY*  
*ELY #1*  
*LE-100*

Date: Nov. 23, 1982

Operator's  
Well No. Ely-1

*HUBBARD SPRINGS-7 1/2'*  
*1782' SUR. EL.*

REPORT OF COMPLETION OF WELL WORK  
IF DRILLING, REDRILLING OR DEEPENING IS INVOLVED

DRILLING CONTRACTOR Stone Oilwell Completions

Address: P. O. Box 2768 Crossville, TN 38555  
Telephone: \_\_\_\_\_

GEOLOGICAL TARGET FORMATION Trenton Limestone

DEPTH OF COMPLETED WELL 1820 feet

DRILLING RIG Rotary X / Cable tool X /

GEOLOGICAL DATA

	Depth		Thickness
	Top	Bottom	

Fresh water: None

Salt water: None

Coal seams: None

MINING IN AREA:

Name	Mined		
	Yes	No	Out

Oil and gas: 1518' - 1820'

Name  
Reedville Shale - Trenton  
Limestone

The data on depth of strata is based on the source(s) checked below:

- Applicant's own drilling experience in the area
- Information supplied by the coal operator in the area
- Information already in the possession of the Inspector
- As follows: information from previous wells drilled  
in area

OTHER GENERAL INFORMATION

An electric log survey was \_\_\_/ was not X/ conducted pursuant to Code of Virginia § 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was X/ was not \_\_\_/ run for other purposes. This survey did \_\_\_/ did not X/ disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia § 45.1-333.B.3.

Deviation surveys were \_\_\_/ were not X/ required under Code of Virginia § 45.1-333.C "to the bottom of the lowest published coal seam depth".

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_/ was not X/ required under Code of Virginia § 45.1-333.C.

Note: If a continuous directional survey was required, the survey results are attached.

CHANGES IN THE PERMITTED WELL WORK

The well operator did \_\_\_/ did not X/ make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

Note: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Ely-1

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes \_\_\_ / No X /  
If "Yes", was a coal protection string set to the red shales? Yes \_\_\_ / No X /

PROGRAM DETAILS

	Size	Top	Bottom	Length	Perforated	
					From	To
<u>Conductor</u>	9 3/4"	0'	50	50'		

Casing circulated and cemented in to the surface: 7" O.D. cemented to 904'  
with returns to surface

Coal protection casing set under the special rule of Code of Virginia § 45.1-334.B:  
N/A

Other casing and tubing left in the well: 4" O.D. casing to 1750' with  
set-down packer at 1720' - 2 3/8" production tubing set at 1790'

Liners left in well, under Code of Virginia § 45.1-336 or otherwise:  
None

Other casing used in drilling but not left in the well:  
None

<u>Packers or bridge plugs:</u>	<u>Kind</u>	<u>Size</u>	<u>Set At</u>
	Set-down	6 3/4"	1720'

REMARKS (SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)  
Shut-down at 1750' 8-26-82 to 11-6-82 Testing

SAMPLES AND CUTTINGS

will \_\_\_ / will not \_\_\_ / be available for examination by a member of the  
Virginia Geological Survey;  
will X / will not \_\_\_ / be furnished the Virginia Geological Survey upon  
request; previously submitted  
will \_\_\_ / will not \_\_\_ / require sacks to be furnished by the Survey.

DRILLER'S LOG

Compiled by \_\_\_\_\_

<u>Geologic Age</u>	<u>Formation</u>	<u>General Lithology</u>	<u>Color</u>	<u>Depth (feet)</u>		<u>Thickness</u>	<u>Remarks</u>
				<u>Top</u>	<u>Bottom</u>		
Silurian	Hancock	Dolomite	gray	0	98'	98'	
Silurian	Clinton	Shale	red/green	98'	376'	278'	
Silurian	Clinch	Sand- stone	white/green	376'	632'	256'	
Ordovician	Sequatchie	silt- stone	red/green	632'	982'	350'	
Ordovician	Reedville	shale limestone	gray	982'	1358'	376'	
Ordovician	Trenton	Limestone	gray	1358'	1820'	462'	

(Complete on supplemental sheets as necessary.)

Date: Nov. 23, 1982

Operator's  
Well No. Ely-1

APPENDIX TO REPORT OF COMPLETION OF WELL WORK  
ON A WELL DRILLED IN SEARCH OF OIL OR GAS

DISCOVERY OF OIL OR INDICATIONS THEREOF

Indicated potential flow: No flow-pump

Before stimulation (if available), 80 Bbl/d  
After stimulation, \_\_\_\_\_ Bbl/d

Gravity and grade: 44° Pennsylvanian

DISCOVERY OF GAS OR INDICATIONS THEREOF

Indicated potential flow:

Before stimulation (if available), \_\_\_\_\_ Bbl/d  
After stimulation, \_\_\_\_\_ Bbl/d

Rock pressure: \_\_\_\_\_ psig

RECORD OF STIMULATION

Full description of stimulation: No stimulation