

RAINTREE OIL CO.
GLADYS ELY UNIT
ELY-2

Date: Nov. 23, 1982

LE-98
HUBBARD SPRINGS-7 1/2'

Operator's
Well No. Ely-2

**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 1630 feet

DRILLING RIG Rotary X / Cable tool X /

GEOLOGICAL DATA

	Depth		Thickness
	Top	Bottom	

Fresh water: None

Salt water: 1507 - 1530

Coal seams: None

MINING IN AREA?

Name	Mined		
	Yes	No	Out

Oil and gas: 1270 - 1630'

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-2

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	45'	45'		

Casing circulated and cemented in to the surface: 7" O.D. cemented to 487'

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. cemented to 487'
set-down packer at 1600' - 2 3/8" production tubing to 1599'

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	1600'

REMARKS (SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, DATES; CAVING; ETC.)
shut-down at 1630' 9-4-82 to 11-23-82 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	Clinton	shale	red	0	280'	280'	
Silurian	Clinch	shale	white/green	280'	514'	234'	
Ordovician	Sequatchie	silt-stone	red/green	514'	858'	344'	
Ordovician	Reedville	shale	gray	858'	1256'	398'	
Ordovician	Trenton	limestone	gray	1256'	1630'	374'	

(Complete on supplemental sheets as necessary.)

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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:

Before stimulation (if available), 100 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: none

HUBBARD SPRINGS
6-11

API No. 45-105-20527-00-03 VDMR Well Rep. No. _____
DMQ File No. LE-98

Operator RAINTREE OIL COMPANY
Farm GLADYS ELY UNIT
Co. Well No. ELY #2

County LEE Quadrangle HUBBARD SPRINGS - 7 $\frac{1}{2}$ '
Location (UTM) N4,064,110; E309,440 UTM Zone 17
(Lat. and Long.) _____

Field BEN HUR Province VALLEY AND RIDGE
Elev. (specify) 1588' GR TD 1630 Form. at TD TRENTON
Age ORDOVICIAN

Date compl. or abandoned NOVEMBER 23, 1982
Result OIL WELL
Gas Shows _____
Gas Pays _____

Main Production 1270' TO 1630' Prod. Form. TRENTON
Age ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL

Initial Production 100 BARRELS PER DAY
FINAL PRODUCTION - 100 BARRELS PER DAY

Oil shows _____
Water FW _____ at _____ at _____ at _____
SW YES at 1507' TO 1530' 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 LITHO DENSITY, AUDIO,
TEMPERATURE

Stratigraphic Data Source

Formation	Top	Datum (Subsea)	Thickness
CLINTON	0	1588	280
CLINCH	280	1308	234
SEQUATCHIE	514	1074	344
REEDSVILLE	858	730	398
TRENTON	1256	332	374

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.: 45-105-20527-00-03

VDMR Well Rep. No.

Div. Gas & Oil File No.: LE-98

Operator: RAINTREE OIL COMPANY

Farm: GLADYS ELY UNIT

County: LEE

Co. Well No.: ELY #2

Quadrangle: HUBBARD SPRINGS - 7-1/2'

Location (UTM): N 4,064,110; E 309,480

UTM Zone: 17

Field: BEN HUR

Province: VALLEY AND RIDGE

Elev. (specify): 1588' GR TD: 1630

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: 1270' TO 1630'

Producing Formation: TRENTON

Final Gas Flow

Age: ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL.

Initial Oil Production: 100 BARRELS PER DAY.

Final Production: 100 BARRELS PER DAY.

Oil Shows

Water	FW	at	at	at
	SW: YES	at: 1507' TO 1530'	at	at

Coal

Plat

Plotted

Completion Report: X

Drillers Log: X

Geologic Log

Samples

Interval Sheet

Sample Interval

Geophysical Logs

S.P.

Res

Gamma:

Neutron

Density

Sonic

Other: LITHO DENSITY, AUDIO, TEMPERATURE

Stratigraphic Data Source:

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
CLINTON	0	1588	280
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Remarks:

References:

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

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VDMR Well Rep. No.:

Div. Gas & Oil File No.: LE-98

Operator: ^{RAIN} RANINTREE OIL COMPANY

Farm: GLADYS ELY UNIT

County: LEE

Co. Well No.: ELY #2

Quadrangle: HUBBARD SPRINGS - 7-1/2'

Location (UTM): N 4,064,110; E 209,480

UTM Zone: 17

Field: BEN HUR

Province: VALLEY AND RIDGE

Elev. (specify): 1588' GR TD: 1630

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: 1270' TO 1630' Producing Formation: TRENTON

Final Gas Flow Age: ORDOVICIAN

Treatment: THIS WAS A NATURAL WELL.

Initial Oil Production: 100 BARRELS PER DAY.

Final Production: 100 BARRELS PER DAY.

Oil Shows:

Water:	FW:	at:	at
	SW: YES	at: 1507' TO 1530'	at

Coal:

Plat Plotted Completion Report: X

Correction
 Hubbard Springs

Drillers Log: X

Geologic Log:

Samples:

Interval Sheet:

Sample Interval:

Geophysical Logs

S.P.

Res

Gamma:

Neutron:

Density: Sonic

Other: LITHO DENSITY, AUDIO, TEMPERATURE

Stratigraphic Data Source:

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
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Remarks:

References:

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Samples: NO

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

OIL AND GAS WELL
SUMMARY REPORT

API No. 45-105-20527-00-03

VDMR Well
Rep. No. _____

DMQ File No. LE-98

Operator RAINTREE OIL COMPANY

Farm GLADYS ELY UNIT

Co. Well No. ELY-2

County LEE Quadrangle HUBBARD SPRINGS & 1/4"

Location (UTM) N4,064,110 ; E 309,440 UTM Zone 17

(Lat. and Long.) _____

Field BEN HUR Province VALLEY AND RIDGE

Elev. (specify) 1588'GR TD 1630 Form. at TD TRENTON

Age ORDOVICIAN

Date compl. or abandoned NOVEMBER 23, 1982

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Initial Production 100 BARRELS PER DAY

FINAL PRODUCTION - 100 BARRELS PER DAY

Oil shows _____

Water FW _____ at _____ at _____ at _____

SW YES at 1507' TO 1530' 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
CLINTON	0	1588	280
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Remarks

References

Released to Open File: Completion FEBRUARY 21, 1983

Samples NO

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

VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1

Well Repository No.: **W 7310**

Date rec'd: Date Processed: 8/24/93

Sample Interval: from 0-10 to: 1630

PROPERTY: Lady's Ely #2

Number of samples: 155

COMPANY: Raintree Oil Co

Total Depth: 1630

COUNTY: Lee (Hubbard Springs) LE 098 (Oil) or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	50-60	700-10	50-60	1400-10
10-20	60-70	10-20	60-70	10-20
20-30	70-80	20-30	70-80	20-30
30-40	80-90	30-40	80-90	30-40
40-50	90-100	40-50	90-1100	40-50
50-60	400-10	50-60	1100-10	50-60
60-70	10-20	60-70	10-20	60-70
70-80	20-30	70-80	20-30	70-80
80-90	30-40	80-90	30-40	80-90
90-100	40-50	90-800	40-50	90-1500
100-10	50-60	800-10	50-60	1500-10
10-20	60-70	10-20	70-80	10-20
20-30	70-80	20-30	80-90	20-30
30-40	80-90	30-40	90-1200	30-40
40-50	90-500	40-50	1200-10	40-50
50-60	500-10	50-60	10-20	50-60
60-70	10-20	60-70	20-30	-
70-80	20-30	70-80	30-40	-
80-90	30-40	80-90	40-50	-
90-200	40-50	90-900	50-60	90-1600
200-10	50-60	900-10	60-70	-
10-20	60-70	-	70-80	-
20-30	70-80	20-30	80-90	-
30-40	80-90	30-40	90-1300	-
40-50	90-600	40-50	1300-10	-
50-60	600-10	50-60	10-20	-
60-70	10-20	60-70	20-30	-
70-80	20-30	70-80	30-40	-
80-90	30-40	80-90	40-50	-
90-300	40-50	90-1000	-	-
300-10	50-60	1000-10	50-60	-
10-20	60-70	10-20	60-70	-
20-30	70-80	20-30	70-80	-
30-40	80-90	30-40	80-90	-
40-50	90-700	40-50	90-1400	-

104
51.55