FORM 17 (Draft 07-09-82)
APPENDIX--TYPE A, SHEET 1 (OBVERSE)

API Well No. 45 -Lee -529 State County Permit

DA	Date: Nov.	. 23 , 19 82
PAINTRES OIL CO. LE-100 GLADYS ELY UNIT HUBBARD #12 OMNI UNIT SPRINGS-1	Unerator s	ly-1
REPORT OF COMPLETION IF DRILLING, REDRILLING OR DE	OF WELL WORK	Ō
DRILLING CONTRACTOR Stone Oilwell Complet	ions	
Address: P. O. Box 2768 Cros	ssville, TN 3855	55
GEOLOGICAL TARGET FORMATION Trenton Lim	nestone	
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		MINING IN AREA:
Coal seams: None	Name	Yes No Out
Oil and gas: 1518' - 1820'	Name Reedville Shale	e - Trenton .
	Limestone	
이상 맛하는 사람들은 모바 살아서 보고 있다.		
The data on depth of strata is bas Applicant's own drilling ex Information supplied by the Information already in the X As follows: information	perience in the are coal operator in to possession of the	ea the area Inspector

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 Sode 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 $_{\rm X}/$ 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.

will not__/

will__/

API Well No. 45 - Lee -529
State County Permit
Ely-1

CASING AND TUBING PROGRAM

Yes", was a coa					,
PROGRAM DETAIL	LS				
Size	Тор	Bottom	Length	Perfora From	To To
<u>luctor</u> 9 3/4"	0'	50	50'		
ing circulated a	and coment	ad in to the	7"(O.D. cemented	1 to 904'
with returns			surrace:	o.b. comenec	
with letains	o to sull	acc			
pro ection cas	sing set u	nder the spec	cial rule of Co	ode of Virginia	§ 45.1-33
N/A					
er casing and to	bing left	in the well:	4" O.D. C	asing to 1750)' with
	· ·				
set-down pack	· ·			n tubing set	at 1790'
	· ·			n tubing set	at 1790'
	· ·			n tubing set	at 1790'
set-down pack	cer at 17	20' - 23/8	' production		at 1790'
set-down pack	cer at 17	20' - 23/8	' production		at 1790'
set-down pack ers left in well	ker at 17	ode of Virgin	production	or otherwise:	at 1790'
set-down packers left in well	cer at 17 1, under C in drillin	ode of Virgin	production	or otherwise:	at 1790'
set-down pack ers left in well	cer at 17 1, under C in drillin	ode of Virgin	production	or otherwise:	at 1790'
ers left in well None er casing used	cer at 17 1, under C in drillin	ode of Virgin	production	or otherwise:	
ers left in well None er casing used	n drilling plugs:	ode of Virging but not les	production in the well	or otherwise:	
None cr casing used None er casing used	l, under C in drillin plugs:	ode of Virging but not les	production inia § 45.1-336 ft in the well Size 6 3/4"	or otherwise:	At
None cers or bridge REMARKS (SHUT	d, under C in drilling plugs: DOWN DEPT	ode of Virging but not less Kind Set-down	production inia § 45.1-336 ft in the well Size 6 3/4"	or otherwise: Set A	At
None cers or bridge REMARKS (SHUT	d, under C in drilling plugs: DOWN DEPT	ode of Virging but not less Kind Set-down	production inia § 45.1-336 ft in the well Size 6 3/4" ISHING JOB DEP	or otherwise: Set A	At
None crasing used None kers or bridge	d, under C in drilling plugs: DOWN DEPT	ode of Virging but not less Kind Set-down	production inia § 45.1-336 ft in the well Size 6 3/4" ISHING JOB DEP	or otherwise: Set A	At

request; previously submitted

require sacks to be furnished by the Survey.

DRILLER'S LOG

Compiled by

Geologic Age	Formation	General Lithology Color	Depth	(feet) Bottom	Thickness	Remarks
Silurian	Hancock	Dolomite gray	0	98'	98'	
Silurian	Clinton	Shale red/greer	,98'	376'	278'	
Silurian	Clinch	Sand- white/gree stone	en 376 '	632'	256'	
Ordovician	Sequatch	silt- red/grestone	een 632	982'	350'	
Ordovician	Reedvill	e shale gray	982	1358	376'	
Ordovician	Trenton	Limestone gray	1358	1820	462'	

FORM 17 (Draft 07-09-82) APPENDIXTYPE D	API Well No. $\frac{45}{\text{Sta}}$	te County Permit
이용원하다. 하나 이 사는 그리고 하는 것 같다.	Date: Nov	. 23 , 1982
	Operator's Well No. Ely	-1
기반생태를 하다고 하는 이번 그를 보고 있었다.		
ON A WELL DRILLED IN SEARCH O		
DISCOVERY OF OIL OR INDICATIONS THEREOF		
Indicated potential flow: No flow-pump		
Before stimulation (if available), 80 After stimulation,	Bbl/d Bbl/d	
Gravity and grade: 44 Pennsylvanian		
DISCOVERY OF GAS OR INDICATIONS THEREOF		
Indicated potential flow:		
Before stimulation (if available), After stimulation,	Bb1/d Bb1/d	
Rock pressure: psig		

No stimulation

RECORD OF STIMULATION

Full description of stimulation:

HUBBARD SPRINGS 6-5

			VDMR Well		
API No.	45-105-20529-00	-03	Rep. No	e logs of	
			File No		
Operator RAI	INTREE OIL COMPA				
Farm GLA	ADYS ELY UNIT	(GLADYS	ELY)		
	#1 OMNI UNIT				
County LEE	7	Quadrangle	e HUBBARD	SPRINGS	- 7½'
Location (UTM)	N 4,064,310;	E 308, 130		UTM Zone _	17
	.)				
	JR			D RIDGE	
	1782' GR				
Initial Flow -				Age ORDOV	
Date compl. or	abandoned <u>NOVE</u>	MBER 23, 19	82		
Result OIL I	WELL				Company.
	1518' TO 1820'			NTON	
				OVICIAN	
Treatment: T	HIS WAS A NATURA	AL WELL			
					- Make
Initial Product FINAL PRODUC Final Flow -	zion <u>80 BARRELS</u> TION - 80 BARREI	S PER DAY LS PER DAY			
	at		at		
	at				
	Plotted		Report	X	
Drillers Log _	Geologic	Log			
Samples	Interval Sheet				
Sample Interval		2 00 0 0 000		17 1961 03	2000
	5				
	gs S.P Res				
Density	Sonic Oth	er <u>LITHO DE</u>	NSITY, TEN	1PERATURE	,
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ferences				
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narks				Washing a
			in the little	
			_	
				Latter tree
TRENTON	1358	424		462
REEDSVILLE	982	800		376
SEQUATCHIE	632	1150		350
CLINTON CLINCH	376	1406		256
HANCOCK	98	1782' 1684		278
Formation	<u>Top</u>	(Subsea)		Thickness 98
	_	Datum		

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.

0il 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:

		Datum	
Formation	Top	(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

Samples:

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.

0il 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:

		Datum	
Formation	Top	(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

Samples:

Jame al 15-152 re-entry 2 Knox

OIL AND GAS WELL SUMMARY REPORT

API No. 45-	-105-20529-0	0-03	Rep.	No
Operator RAT		OMPANY		No
Farm GLA	The second second			The state of the s
Co. Well No	# 1. OMNI U	NIT · ·		The same of the sa
County	LEE		Quadrangle H	UBBARD SPRINGS 75
Location (UTM)	N4,064,310	D; E308,130		UTM Zone
(Lat. and Long	.)	. 14		
Field BE	N HUR		Provin	nce VALLEY AND RIDGE
Elev. (specify	1782'GR	TD1	820' Form.	at TD TRENTON
				Age ORDOVICIAN
Date compl. or	abandoned	NOVEMBER 2	3, 1982	
Result OIL	WELL .			
Gas Shows				- A
Gas Pays				
Main Production	n 1518' ro 1	820'	Prod. Form.	TRENTON
			Age	ORDOVICIAN
Initial Production			DAY	
Oil shows				
Water FW			t	at
			t	
Coal				
Plat	Plotted	. Comp	letion Report	X
	The state of the s			
Samples				
Sample Interva				
Remarks	·			
Geophysical Lo	gs S.P	Res	Gamma	Neutron
Density	Sonic	Other	•	
•				

				,14
Formation.	Тор	Datum (Subsea)	Thickness	
HANCOCK	0	1782'	98	
CLINTON	98	1684	278	
CLINCH	_376	1406	256	6.
SEQUATCHIE	632	1150	_350	
REEDSVILLE TRENTON	<u>982</u> · 1358	<u>800</u> 424	376 462	
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	Larrel .	AT THE		
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ences				

Released to Open File:	Completion	FEBRUARY 21, 1983	1819
	Samples	NO	1.8637754

OIL AND GAS WELL SUMMARY REPORT

MI 1 110. 43-103-	-20529-00-0	3	Rep. 1	10.		
API No. 45-105-		Di	MQ File 1	10.	LE-100	
Operator R&TF	RAINTREE OI	L COMPANY, INC.		A Committee		
Farm GLADYS	ELY			1		
Co. Well No	ELY #1				1.	
The state of the s		Quadra	angle	HUDDA	D CDDTN	71.1
		E308,130				
(Lat. and Long.)				7 - 7		
				C VALL	EY AND RI	DGE
Elev. (specify)	1782 GR	TD 1820/	Form. a	t TD TR	ENTON	
				Age ORI	OOVICIAN	
Date compl. or ab	andoned _	NOVEMBER 23, 1982				
Result OIL WEL						
Gas Shows		A Property				
Gas Pays	'					
Main Production _						
(A selection) Also to all the second of the			Λge	ORDOVIO	CIAN	
Treatment:T	THIS WAS A	NATURAL WELL				
					14 12 111	
						,
Initial Production						
SETTLED	PRODUCTIO	N - 3 BARRELS PER I	DAY	•		
011 shows	to 1820:					
Water FW				at		
1						
		at		at		11
Coal		at	1.	at	_	11
Coal.				114		11
Plat Pl	otted	Completion	Report _	X	dec,	
Plat Plat	otted	. Completion	Report _	X	dec,	
Plat Plat	otted	. Completion	Report _	X	dec,	
Plat Plat Plat Plat Plat Plat Plat Plat	otted Geolo	Completion gic Log	Report _	X	1.A.,	
Plat Plat Plat Plat Plat Plat Plat Plat	otted Geolo Interval S	Completion gic Log	Report _	X		
Plat Plat Plat Plat Plat Plat Plat Plat	otted Geolo Interval S	Completion gic Log	Report _	X	de,	
Plat Plat Plat Plat Plat Plat Plat Plat	otted Geolo Interval S	Completion gic Log heet	Report _	X Neutr	on	
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SCIAC	igraphic Data Sc	Jurce			7.50
		THOUSAND PRINCIPLE			
	Formation.	Тор	(Subsca)	Thickness	
01.1	HANCOCK	0	+1782	98	
per de general	CLINTON	98	+1684	278	
Conference of the second section 1 and 1	CLINCH	376	+1406	256	
	SEQUATCHIE	632	+1150	.350	
	REEDSVILLE · ·	982.	+ 800	376	
CONTRACT.	TRENTON	1358	+ 424	462	
17.				the freight accommon	
- property and the second				Committee 1575	
AND RIDGE	Marine bardens			na <u>with the state</u> of	
100	granica - Committee Committee	A received.			
MAIDI	(OCCUPANT)				
Remar	K G				
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	July 1915 Comment		•		
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Marine property					
		. Completion	FEBRUARY 21, 1	983	
Releas	sod to Open Filo				

1	APPENDIXTYPE A, SHEET 1 (OBVERSE)		API Well	No. 45 -Lee State Count	Property Construction of the Party Construct
	R&TRAINTREEOIL CO, INC.		Date:	Nov. 23	, 19 82
••••••	GLADYS ELY				
	ELY#1		Operator' Well No	s Ely-l	
	1.8-100				
11100		COMPLETION OF	F WELL WORK		
MUDES	IF DRILLING, REDRI	LLING OR DEED	PENING IS INV	OLVED	
1182	SUR 21.				
	DRILLING CONTRACTOR Stone Oilwe	II Completi	ons		
	Address: P. O. Box 2 Telephone:	768 Cross	ville, TN	38555	
	retophone.				
	GEOLOGICAL TARGET FORMATION T	renton Lime	stone		
	DEPTH OF COMPLETED WELL 1820	_ feet			
	DRILLING RIG Rotary X/ Cable to	ool_X_/			
	GEOLOGICAL DATA Depth	Thickness			
	Top Bottom	Inickless			
	Fresh water: None				
	Salt water: None				
	Salt water: None				
				MINING	IN AREAT
			11111111		Mined
	Coal seams: None		Name	Yes No	Out
*	Coal seams: None				,
*					
			Name		
	Oil and gas: 1518' - 1820'			Shale - Trent	on .
			DIMOD COME		
	The data on depth of st	rata is based	d on the sour	ce(s) checked b	pelow:
	Applicant's own Information supp	lied by the	coal operator	in the area	
	Information alre	ady in the po	ossession of	the Inspector	
	X As follows: in	formation f	rom previou	is wells dril	led
	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.

API	Well	No.	45 -	Lee .	-529
			State	County	Permit
			Ely-	-1	

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

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

PROGRAM DETAILS

						Perforated		
Si	ze		Тор	Bottom	Length	From	То	
Conductor	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 projection casing set under the special rule of Code of Virginia § 45.1-334.B:

Other casing and tubing left in the well: 4" O.D. casing to 1750' with set-down packer at 1720' - 23/8' 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

Packers or bridge plugs:	Kind	Size	Set At	
*	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 upor request; previously submitted
will/	will not/	require sacks to be furnished by the Survey.

DRILLER'S LOG

Compiled by

Geologic Age	Formation	General Lithology (Color	Depth Top	(feet) Bottom	Thickness	Remarks
Silurian	Hancock	Dolomite	gray	0	98'	98'	
Silurian	Clinton	Shale red	/green	,98 '	376	278'	
Silurian	Clinch	Sand- whit stone	e/gree	n 376'	632'	256'	
Ordovician	Sequatch	ie silt- r stone	ed/gre	en 632'	982'	350'	
Ordovician	Reedvill	e shale limestone	gray	982'	1358	376'	1.*
Ordovician	Trenton	Limestone	gray	1358'	1820	462'	

FORM	17	(Draft	07-09-82
APPEN	DIX	TYPE	D

APPENDIXTYPE D	mi neil no.		
AFFENDIXIIFE D		State Count	y Permit
	Date:	Nov. 23	, 1982
	Operator's		
	Well No	Ely-1	
ON A WELL DRILLED IN SEARCH O		K.	
DISCOVERY OF OIL OR INDICATIONS THEREOF			
Indicated potential flow: No flow-pump			
Before stimulation (if available),80	Bb1/d		
After stimulation,	Bb1/d		
Gravity and grade: 44° Pennsylvanian			
	*		
DISCOVERY OF GAS OR INDICATIONS THEREOF			
Indicated potential flow:			
Before stimulation (if available),After stimulation,	Bbl/d Bbl/d		,
Rock pressure: psig			

RECORD OF STIMULATION

Full description of stimulation: No stimulation