

OK

VDMR Well Rep. No. _____
 API No. 45-105-20626-00-03 DMQ File No. LE-136

Operator EASTERN STATES EXPLORATION COMPANY
 Farm RYLAND RAMSEY
 Co. Well No. RYLAND RAMSEY #6

County LEE Quadrangle ROSE HILL - 7½'
 Location (UTM) N4,057,500; E288,690 UTM Zone 17
 (Lat. and Long.) _____

Field ROSE HILL Province VALLEY AND RIDGE
 Elev. (specify) 1458.3' GR TD 3852' Form. at TD KNOX
 Age ORDOVICIAN

Date compl. or abandoned DECEMBER 6, 1983
 Result OIL WELL

Gas Shows 3510'; 1874'
 Gas Pays _____

Main Production _____ Prod. Form. KNOX
 Age ORDOVICIAN

Treatment: _____

Initial Production SETTLED PRODUCTION - 5 BARRELS PER DAY

Oil shows _____
 Water FW YES at 98' TO 106' at _____ at _____
 SW YES at 500' TO 510' 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

J. MICHAEL POOLE

<u>Formation.</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
SOIL	0	+1458.3'	6
OVERTHRUST	6	+1452.3	164
CLINTON	170	+1288.3	340
CLINCH	510	+ 948.3	95
HAGAN	605	+ 853.3	65
SEQUATCHIE	670	+ 788.3	300
REEDSVILLE	970	+ 488.3	430
TRENTON	1400	+ 58.3	500
LIME	1900	- 441.7	280
LIME	2180	- 721.7	1025
KNOX	3205	-1746.7	647

Remarks

References

Released to Open File: Completion MARCH 13, 1984

Samples NO

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

OIL AND GAS WELL SUMMARY REPORT

API No.: 45-105-20626-00-03

VDMR Well Rep. No.

Div. Gas & Oil File No.: LE-136

Operator: EASTERN STATES EXPLORATION COMPANY

Farm: RYLAND RAMSEY

County: LEE

Co. Well No.: RYLAND RAMSEY #6

Quadrangle: ROSE HILL - 7-1/2'

Location (UTM): N 4,057,500; E 288,690 UTM Zone: 17

Field: ROSE HILL Province: VALLEY AND RIDGE

Elev. (specify): 1458.3' GR TD: 3852' Formation at TD: KNOX

Initial Gas Flow Age: ORDOVICIAN

Date compl. or abandoned: DECEMBER 6, 1983

Result: OIL WELL

Gas Shows: 3510'; 1874'

Gas Pays

Main Production Producing Formation: KNOX

Final Gas Flow Age: ORDOVICIAN

Treatment:

Initial Oil Production:

Settled Production: 5 BARRELS PER DAY

Final Production:

Oil Shows

Water	FW: YES	at: 98' TO 106'	at	at
	SW: YES	at: 500' TO 510'	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:

Stratigraphic Data Source: J. MICHAEL POOLE

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
SOIL	0	+1458.3'	6
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REEDSVILLE	970	+ 488.3	430
TRENTON	1400	+ 58.3	500
LIME	1900	- 441.7	280
LIME	2180	- 721.7	1025
KNOX	3205	-1746.7	647

Remarks:

References:

Released to Open File: Completion: MARCH 13, 1984
Samples: NO

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

DATE: December 7, 1983

OPERATOR'S
WELL NO. Ryland Ramsey #6

EASTERN STATES EXPLORATION CO,
RYLAND RAMSEY
RYLAND RAMSEY #6
SUR. EL. -1458.3' GR.
LE-136
ROSE HILL QUAD. 7 1/2'

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
OIL AND GAS SECTION
205 W. Main Street
Abingdon, Virginia 24210
Phone 703 628-8115

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Rose Hill District, Lee County, Virginia on 6th day, December month, 1983.

WELL TYPE: Oil Gas Enhanced Recovery Waste Disposal
IF "GAS", Production Underground storage
Exempt by Code § 45.1-300.B.1 from general oil and conservation law: Yes NO

WELL WORK: Drill Deepen Redrill Stimulate
Plug Off Old Formation Perforate New Formation
Plug Replug
Other physical change in well (specify) _____

The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA § 45.1-332.

Ninety days from the filing of this report,

OR

Two years from _____, 19____, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia § 45.1-288.21.

APPLICANT: Eastern States Exploration
BY: J. Michael Dale
ITS: Drilling Supt
ADDRESS: 913 King Street
Alexandria, VA 22314
TELEPHONE: (703) 684-1464



DATE: December 7, 1983
Operator's
Well No. Ryland Ramsey #6

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

DRILLING CONTRACTOR U S Oil of Virginia Inc
ADDRESS P O Box 916 Big Chimney, W.V 25302
TELEPHONE 304-344-8878

DEPTH OF COMPLETED WELL 38.52 FEET

DRILLING RIG Rotary Cable Tool

GEOLOGICAL DATA

	DEPTH		THICKNESS
	Top	Bottom	

Fresh water: 98 106 (in open cave)

Salt water: 500 510 Trace in clinch sand

Coal seams: n/a

Name	MINING IN AREA?		
	Yes	No	Mined Out
<u>n/a</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Oil and gas:

	Depth	Name
gas o dex	<u>7869</u>	<u>Trenton lime</u>
oil show	<u>1874</u>	<u>Trenton lime</u>
gas o dex	<u>3480</u>	<u>Knox</u>
oil show	<u>3510</u>	<u>Knox</u>

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: _____

OTHER GENERAL INFORMATION

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

An electric log survey was / was not ___/ run for other purposes. This survey did ___/ did not / 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 S 45.1-333.B.3.

Deviation surveys were ___/ were not / required under Code of Virginia S 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 / required under Code of Virginia S 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 / 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:

CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? YES No
If "YES", was a coal protection string set to the red shales? YES NO

PROGRAM DETAILS

SIZE	TOP	BOTTOM	LENGTH	PERFORATED	
				FROM	TO
Conductor <u>9 5/8</u>	<u>-0-</u>	<u>131</u>	<u>131</u>	cemented w/300 sks std. cement w/3% CCL	

Casing circulated and cemented in to the surface:

7" 1716 -0- 1029' 1029' cemented to surface with 150sks std cement w/3% CCL and 1/4 lb Floccle per/sk

Coal protection casing set under the special rule of Code of Virginia S 45.1-334.B:

N/A

Other casing and tubing left in the well: 3518' 2 3/8" Reg. tubing

-0- [REDACTED] 3518 3510 - 3518

Liners left in well, under Code of Virginia S 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>
<u>Bridge plug</u>	<u>Baker model-m-1</u>	<u>6 1/4</u>	<u>3524</u>

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

open cave from 98' to 106'

SAMPLES AND CUTTINGS

will will not be available for examination by a member of the Division of Mineral Resources
will will not be furnished the Division of Mineral Resources upon request
will will not require sacks to be furnished by the Division of Mineral Resources

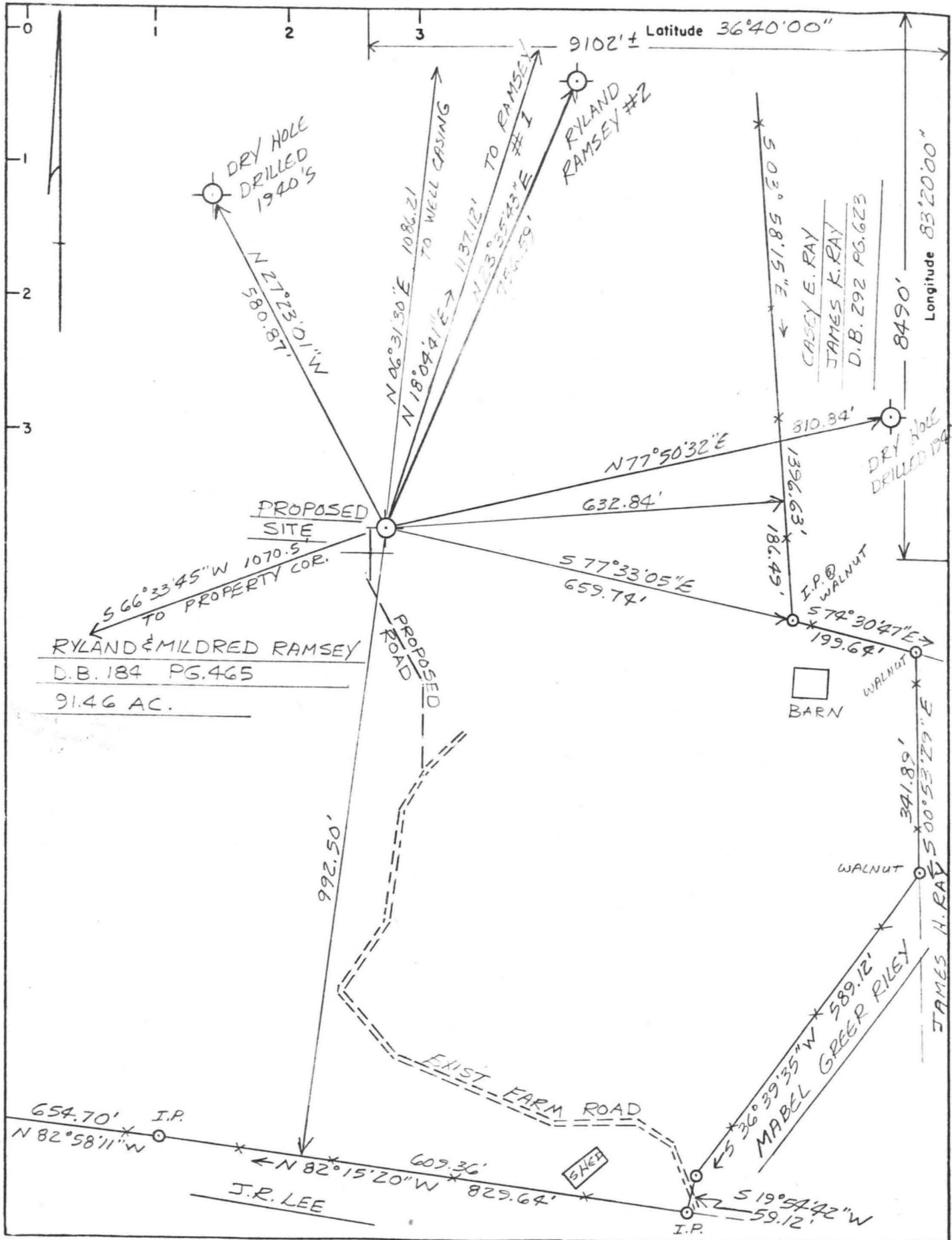
DRILLER'S LOG

COMPILED BY

J. Michael Cole

<u>Geologic Age</u>	<u>Formation</u>	<u>General Lithology</u>	<u>Color</u>	<u>Depth Ft.</u>		<u>Thickness</u>	<u>Remarks</u>
				<u>Top</u>	<u>Bottom</u>		
	soil	clay	Brown	0	6	6	
	over thrust	lime	gray Brown	6	170	164	open cave 98-106
	Clinton	shale	Grey	170	510	340	
	Clinch	sand sandy sh	white Grey	510	605	95	Trace of salt water
	Hagan	shale	Grey	605	670	65	
	Secunchie	shaley lime	Red Reddish Grey	670	970	300	
	Reedsville	shale	grey	970	1400	430	
	Trenton	lime	Brown Tan	1400	1900	500	Bentonite 1881-1883
		lime	light Tan	1900	2180	280	
		lime	Dark Tan	2180	3205	1025	
	Knox	lime	light Tan, Brown	3205	3852 TD	-	

INITIAL FLOW - 5 BOF OIL PER DAY



(FOR OFFICE USE ONLY: API Well No. 45 - 105 - 20626
State County Permit

Date: Sept. 12, 1983

Operator's Well No. R. Ramsey #6

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES
219 Wood Avenue
Big Stone Gap, Virginia 24219-1799
Phone 703-523-0335

LE-136



WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new / updated /

This plat is / is not / based on a mine coordinate system established for the areas of the well location.

Well operator EASTERN STATES EXPLORATION CO.
6621 ELECTRONIC DRIVE SUITE 220
Address SPRINGFIELD, VIRGINIA 22151
Farm RYLAND & MILDRED RAMSEY
Tract 1 Acres 91.46 Lease No. _____
Elevation 1458.3
Quadrangle ROSE HILL
County LEE District ROSE HILL
Registered Engineer _____ Registration No. _____
Certified Land Surveyor Cert. No. 001412
File No. _____ Drawing No. O-223A-47-12
Date SEPT. 6, 1983 Scale 1"=200'

Certification of Well Plat

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 of the Virginia Well Review Board.

Jerry A. Carter
Registered Engineer or Certified Land Surveyor
in Charge

