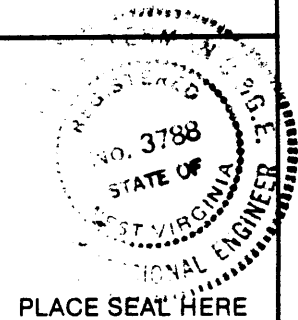


(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. 83-556
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200'
 PROVEN SOURCE OF ELEVATION DALLISON (692')

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) Robert L. Murdock
 R.P.E. 3788 L.L.S. _____



PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 10/7, 19 83
 OPERATOR'S WELL NO. 3
 API WELL NO. 47-107-1291
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS _____ LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 840' WATER SHED LOST RUN
 DISTRICT WALKER COUNTY WOOD
 QUADRANGLE KANAWHA 7.5' Elizabeth 15' IX
 SURFACE OWNER WESTVACO ACREAGE 181
 OIL & GAS ROYALTY OWNER R. C. LINCICOME LEASE ACREAGE _____

PROPOSED WORK: DRILL CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 OCT 31 1983

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION BEREA ESTIMATED DEPTH 2500'
 WELL OPERATOR RIMROCK PRODUCTION CORP. DESIGNATED AGENT ROBERT L. MURDOCK
 ADDRESS 4424 - B EMERSON AVENUE ADDRESS SAME
PARKERSBURG, WV 26101

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

COUNTY NAME
 PERMIT



Date February 3, 1984
 Operator's
 Well No. #3
 Farm Lincicome
 API No. 47 - 107 - 1291

State of West Virginia
 Department of Mines
 Oil and Gas Division

WELL OPERATOR'S REPORT
 OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
 (If "Gas," Production / Underground Storage / Deep / Shallow X /)

LOCATION: Elevation: 840' Watershed Lost Run
 District: Walker County Wood Quadrangle Kanawha 7.5'

COMPANY Rimrock Production Corporation
 ADDRESS 4424 B Emerson Ave., Parkersburg, WV
 DESIGNATED AGENT Robert L. Murdock
 ADDRESS 4424 B Emerson Ave., Parkersburg, WV
 SURFACE OWNER Westvaco
 ADDRESS Rt. 95 & Rayon Dr., Parkersburg, WV
 MINERAL RIGHTS OWNER R.C. Lincicome & J. H. Walsh
 ADDRESS Vienna, WV & Ripley, WV
 OIL AND GAS INSPECTOR FOR THIS WORK Jerry Tephabock
 ADDRESS Rt.1, Box 101-A, Ripley, WV
 PERMIT ISSUED October 24, 1983
 DRILLING COMMENCED November 5, 1983
 DRILLING COMPLETED November 7, 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"			
9 5/8			
8 5/8	283'	283'	70 Sks.
7			
5 1/2			
4 1/2	2310	2310	273 Sks.
3			
2-3/8"		2308'	
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 2500 feet
 Depth of completed well 2344 feet Rotary X / Cable Tools
 Water strata depth: Fresh 100 feet; Salt 1700 feet
 Coal seam depths: NA Is coal being mined in the area? NO

OPEN FLOW DATA
 Producing formation Berea 295 Pay zone depth 2284-2290 feet
 Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 14 Mcf/d Final open flow ? Bbl/d
 Time of open flow between initial and final tests hours
 Static rock pressure 480 psig (surface measurement) after 24 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 hours
 Static rock pressure psig (surface measurement) after hours shut in

JUL 23 1984

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perf 20 holes from 2280'-2289'

Frac w/105,500 SCF N₂, 200 Gal. 15% acid, 175,000# 20/40 sand.

(N)

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	11	
Sandstone			11	50	
Shale			50	158	
Sandstone & Shale			158	490	
Sandstone			490	504	
Sandy Shale			504	728	
Limestone & Shale			728	754	
Sand			754	775	
Sandy Shale			775	816	
Sand			816	822	
Shale & Sandstone			822	1134	
Sand			1134	1164	
Shale			1164	1184	
Sand			1184	1232	
Shale			1232	1282	
Sand			1282	1290	
Shale			1290	1310	
Sandy Shale			1310	1440	
Sand			1440	1480	
Shale & Sand			1480	1622	
Sand			1622	1670	
Shale			1670	1690	
Sand			1690	1720	
Shale			1720	1730	
Sand			1730	1820	Saltwater
Shale			1820	1840	
Sand			1840	1884	
Sandy Shale			1884	2055	
Shale			2055	2270	
Coffee Shale			2270	2284	
<u>Berea</u>			2284	2290	
Shale			2290	2344	TD

(Attach separate sheets as necessary)

Rimrock Production Corporation
Well Operator

By: _____

Date: February 3, 1984

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



1) Date: October 13, 19 83
 2) Operator's Well No. Lincicome #3
 3) API Well No. 47 - 107 - 1291
 State _____ County _____ Permit _____

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
 APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 840' Watershed: Lost Run
 District: Walker County: Wood Quadrangle: Kanawha 7.5'
- 6) WELL OPERATOR Rimrock Production Corp. 7) DESIGNATED AGENT Robert L. Murdock
 Address 4424 B Emerson Avenue Address 4424 B Emerson Avenue
Parkersburg, WV 26104 Parkersburg, WV 26104
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Jerry Tephabock Name FWA Drilling Company, Inc.
 Address Rt. 1, Box 101-A Address P. O. Box 448
Ripley, WV 25271 Elkview, WV 25071
- 10) PROPOSED WELL WORK: Drill / Drill deeper _____ / Redrill _____ / Stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Berea Sand
- 12) Estimated depth of completed well, 2500 feet
- 13) Approximate trata depths: Fresh, 100 feet; salt, 1700 feet.
- 14) Approximate coal seam depths: None Is coal being mined in the area? Yes _____
- 15) CASING AND TUBING PROGRAM

RECEIVED
 OCT 14 1983
 OIL & GAS DIVISION
 DEPT. OF MINE

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		Kinds	Sizes
Conductor										
Fresh water	8-5/8	J	23#	X		260'	260'	Circ. to Sur.		By Rule 15.25
Coal								70 Sks.		
Intermediate										
Production	4-1/2	J	10.5	X		None	2500'	300 Sks.		Depths set
Tubing	2-3/8	H	4.6	X		None	2450'	None		
Liners										Perforations: Estimated
										Top Bottom
										2502 2508

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-107-1291 Date October 24, 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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
 Permit expires October 24, 1985 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: MARKET BOND	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>124.3</u>
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[Signature]
 Administrator, Office of Oil and Gas