

**State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work**

API # 4703502704

Farm Name Casto, Regina & Rondus Well Number 510677
 Location Elevation 1,020 Quadrangle KENTUCK
District Washington County Jackson, WV
Latitude 2540 FSL 38.00 42.00 30.00
Longitude 7300 FWL 81.00 35.00 0.00

Company Equitable Production Company
1710 Pennsylvania Avenue Charleston,
WV 25328
 Agent Steve Perdue
 Inspector Larry Parrish
 Permit Issued 05/02/2006
 Well Work Commenced 05/17/2006
 Well Work Completed 06/08/2006
 Verbal Plugging
 Permission granted or _____
 Rotary Rig Cable Rig _____

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft
13 3/8	33	33	
9 5/8	909	909	413.00
7	2,415	2,415	389.40
4 1/2	5,202	5,202	434.70
2 3/8		5,087	

Total Depth 5,235

Water Encountered

Type	From
Fresh water	1/4" @ 295'
Salt Water	2" @ 1820'

Coal & Open Mines

Type	From

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WV Department of
Environmental Protection

Open Flow Data

Producing Formation Rhinestreet/L Hur ; L Hur/U Dev ; Berea ; Pay Zone Depth (ft): See attached for details
 Gas: Initial Open Flow 0 MCF 5-21-06 Date Oil: Initial Open Flow _____ Bbl/d
 Final Open Flow 725 MCF 06/09/2006 Date Final Open Flow _____
 Time of open flow between initial and final tests 0 hours
 Static Rock Pressure 526 after 0 hours

Second Producing Formation _____ Pay Zone Depth (ft) _____
 Gas: Initial Open Flow _____ MCF _____ Date Oil: Initial Open Flow _____ Bbl/d
 Final Open Flow _____ MCF _____ Date Final Open Flow _____
 Time of open flow between initial and final tests _____ hours
 Static Rock Pressure _____ after _____ hours

NOTE: On back of this form put the following
 1) Details of Perforated intervals, fracturing or stimulating, physical change, etc.
 2) The well log, a systematic detailed geological record of all formations including coal encountered in the well here

Robert M Reel
 For Equitable Production Company
 By ROBERT M REEL
 Date 21 AUG 06

Equitable Production Company
WR-35 Completion Report - Attachment
Well Treatment Summary

Stage 1		Stage 2		Stage 3	
Date	06/01/2006	Date	06/01/2006	Date	06/01/2006
FracTyp	N2	FracTyp	N2	FracTyp	Variabl Foam
Zone	Rhinstreet/L Hur	Zone	L Hur/U Dev	Zone	Berea
# of Perfs	40	# of Perfs	40	# of Perfs	11
From/To	4,319— 5,163	From/To	2,940— 4,286	From/To	2,648— 2,653
BD Press	3,927	BD Press	3,331	BD Press	1,165
ATP Psi	3,556	ATP Psi	3,190	ATP Psi	1,911
Avg Rate	77,700	Avg Rate	81,600	Avg Rate	0
Max Press Psi	3,916	Max Press Psi	3,376	Max Press Psi	2,068
ISIP Psi	1,720	ISIP Psi	1,954	ISIP Psi	1,900
10min SIP	1,666 5 min.	10min SIP	1,686 5 min.	10min SIP	1,806 5 min.
Frac Gradient	0.48	Frac Gradient	0.67	Frac Gradient	0.42
Sand Proppant	0.00	Sand Proppant	0.00	Sand Proppant	250.00
Water-bbl	0	Water-bbl	0	Water-bbl	212
SCF N2	810,000	SCF N2	850,000	SCF N2	327,000
Acid-gal	625 gal 7.5%	Acid-gal	1,100 gal 7.5%	Acid-gal	350 gal 15%HCL

Formation Name	Depth To	Depth Bottom	Formation Thick
SALT SAND	1,835.00	2,026	191.00
BIG LIME	2,062.00	2,194	132.00
BIG INJUN	2,194.00	2,252	58.00
WEIR	2,252.00	2,385	133.00
SUNBURY	2,627.00	2,647	20.00
BEREA	2,647.00	2,653	6.00
UPPER DEVONIAN	2,653.00	3,873	1,220.00
LOWER HURON	3,873.00	4,501	628.00
JAVA	4,501.00	4,653	152.00
ANGOLA	4,653.00	4,904	251.00
RHINESTREET	4,904.00	0	0.00

Gas Tests	
Depth	Remarks
3,900	No Show
4,200	odor
4,500	odor
4,800	odor
4,900	odor
5,100	odor
5,235	odor
2,400	No Show
2,700	No Show
3,000	No Show
3,300	No Show
3,600	No Show



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Joe Manchin III, Governor
Stephanie R. Timmermeyer, Cabinet Secretary
www.wvdep.org

May 02, 2006

WELL WORK PERMIT
New Well

This permit, API Well Number: 47-3502704, issued to **EQUITABLE PRODUCTION COMPANY**, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced.

If there are any questions, please feel free to contact me or Mr. Al Blankenship at 304-926-0499 ext. 1653.

JAMES MARTIN
Chief,
Office of Oil and Gas

Operator's Well No: 510677

Farm Name: CASTO, REGINA & RONDUS

API Well Number: 47-3502704

Permit Type: New Well

Date Issued: 05/02/2006

Promoting a healthy environment.

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35-2704

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS
WELL WORK PERMIT APPLICATION

- 1) Well Operator: EQUITABLE PRODUCTION COMPANY
2) Operator's Well Name: Perkins 510677
3) Elevation: 1,020'
4) Well Type: (a) Oil or Gas X
(b) If Gas: Production X, Deep, Shallow X
5) Proposed Target Formation(s): Berea, Devonian Shale, Rhinestreet
6) Proposed Total Depth: 5,233' Feet
7) Approximate fresh water strata depths: 54', 775'
8) Approximate salt water depths: 1736', 2104', 2266'
9) Approximate coal seam depths: none reported
10) Does land contain coal seams tributary to active mine? No
11) Describe proposed well work: Drill and complete a new well.

12) CASING AND TUBING PROGRAM

J.S.P. 4-19-06

Table with 7 columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE (For Drilling), INTERVALS (Left in Well), CEMENT (Fill-up (Cu.Ft)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, and Liners.

Packers: Kind, Size, Depths Set

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