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CONFIDENTIAL

MAR 26 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

BOPCO WELL DETERMINATION OR RECOMPLETION REPORT AND LOG

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
 2. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resv.
 Other:

3. Name of Operator

BOPCO, L.P.

4. Address

P.O. Box 2700 Midland TX 79702

5. a. Phone No. (Include area code)

(432) 683-2277

6. Location of Well (If on public land, comply and in accordance with Federal requirements)

Surface U.T.M. 2000' TNL, 1730' FWL, Lat N 32 35034, Long W 103 83733

7. Log prod. interval reported below

Actual depth U.T.D. 575' TNL, 367' FWL, Sec 35

11. Date Spudded

10/31/2009

15. Date TD Reached

12/03/2009

16. Date Completed

01/14/2010

18. Total Depth MD (T.D.)

51727'4"

19. Plug Back TD MD

TVD

20. Depth Bridge Plug Set MD

TVD

21. Type of Electric & Other Mechanical Logs Run (Submit copy of each)

OK Down Log Flipped, PPC Borehole Graphics; Power Positioning Caliper
GR22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DSI run? ☒ No ☐ Yes (Submit analysis)Directional Survey ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (If not, plug set in well)

Casing Size	Size Grade	Weight	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. Csgs & Type of Cement	Slurry Vol (BBB)	Cement Top	Amount Pulled
17-1/2"	13-3/8" 440	18#	0	620' TVD		535 sxs		0' Circ	
12-1/4"	9-5/8" 53	40#	0	3829' TVD		1350 sxs		0' Circ	
8-3/4"	7" P-110	23#	0	7700'	5018'	380 sxs Stg I 625 sxs Stg II		5018' DV 0' Circ	
6-1/8"	4-1/2" P-110	11.6#	6786'	14,082'					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-7/8"	6760'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Csgs	Perf. Status
Delaware	3808'	7274' TVD	See attachment for details			
Hg						
G						
D						

27. Acid Fracture, Treatment, Cement Squeeze, Etc.
Depth Interval

See attachment for details

Submit commercial well determination
within 6 months of completion date.

28. Production - Interval A

Time First Test Produced Date

Hours Tested

211# Rate

Oil BBL

Gas MCF

Water BBL

Oil Grains Corr. API

Gas Gravity

Production Method

Well Status

Producing

Production - Interval B

Time First Test Produced Date

Hours Tested

211# Rate

Oil BBL

Gas MCF

Water BBL

Oil Grains Corr. API

Gas Gravity

Production Method

Well Status

Producing

ACCEPTED FOR RECORD

MAR 23 2010
/s/ Chris WallsBUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

ME

25E. Production - Interval 1

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Grains Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Well Pres. (psi)	Case Pres. (psi)	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	
			→						

25F. Production - Interval 2

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Grains Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Well Pres. (psi)	Case Pres. (psi)	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas-Oil Ratio	Well Status	
			→						

26. Disposition of Gas (Solid as it is, fuel, vented, etc.)

Solid

27. Summary of Perfor. Zones (include Aquifers)

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth, interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

28. Formation (Log Markers)

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
Bell Canyon	3,834'	4,742'	Sandstone	T Rustler	309'
Cherry Canyon	4,742'	6,044'	Sandstone	T Salt	606'
Brushy Canyon	6,044'	not reach	Sandstone	T Delaware Sands	3808'

29. Additional remarks (include plugging procedure)

30. Indicate which items have been attached by placing a check in the appropriate boxes

☒ Electrical Mechanical Logs (1 full set req'd.) ☐ Geological Report ☐ DST Report ☒ Directional Survey
☐ Summary Notice for plugging and cement verification ☐ Core Analysis ☐ Other

31. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Valerie Truax

Title Regulatory Admin Assistant

Signature



Date 02.01.2010

Title 18 U.S.C. Section 1001 and Title 18 U.S.C. Section 1342, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

JRU #104 3160-4

26. Perforation Record (Pre perf sleeve)

Perforation Interval	Perf Status
7,715'-16, 7,973'-74'	Producing
8,317'-18', 8,760'-61'	Producing
9,155'-56', 9,539'-40'	Producing
9,938'-40', 10,293'-94'	Producing
10,692'-94', 11,050'-51'	Producing
11,457'-58', 11,756'-57'	Producing
12,053'-54', 12,500'-01'	Producing
12,949'-50', 13,353'-54'	Producing
13,711'-13', 14,064'-65'	Producing

27. Acid, Shot, Fracture, Cement, Squeeze, Etc.

Depth Interval	Amount & Kind Material Used
7,715'-7,716'	Frac w. 672 gals 25# linear, 49,501 gals YF125ST w/ 148,710# 16/30 Ottawa sand
7,973'-7,974'	Frac w. 5,586 gals 25# linear, 51,382 gals YF125ST w/ 156,330# 16/30 Ottawa sand
8,317'-8,318'	Acidize w. 630 gals 15% HCl
8,317'-8,318'	Frac w. 8,568 gals 25# linear, 52,690 gals YF125ST w/ 155,270# 16/30 Ottawa sand
8,760'-8,761'	Acidize w. 714 gals 15% HCl
8,760'-8,761'	Frac w. 7,308 gals 25# linear, 50,454 gals YF125ST w/ 149,940# 16/30 Ottawa sand
9,155'-9,156'	Acidize w. 588 gals 15% HCl
9,155'-9,156'	Frac w/ 18,270 gals 25# linear, 52,093 gals YF125ST w/ 161,040# 16/30 Ottawa sand
9,539'-9,540'	Acidize w. 756 gals 15% HCl
9,539'-9,540'	Frac w/ 5,754 gals 25# linear, 51,754 gals YF125ST w/ 157,400# 16/30 Ottawa sand
9,938'-9,940'	Acidize w. 1050 gals 15% HCl
9,938'-9,940'	Frac w/ 8,358 gals 25# linear, 51,715 gals YF125ST w/ 157,320# 16/30 Ottawa sand
10,293'-10,294'	Acidize w/ 924 gals 15% HCl
10,293'-10,294'	Frac w/ 7,686 gals 25# linear, 51,322 gals YF125ST w/ 155,800# 16/30 Ottawa sand
10,692'-10,694'	Frac w/ 52,145 gals YF125ST w/ 161,730# 16/30 Ottawa sand
11,050'-11,051'	Acidize w. 756 gals 15% HCl
11,050'-11,051'	Frac w/ 8,358 gals 25# linear, 51,627 gals YF125ST w/ 155,560# 16/30 Ottawa sand

11.457-11.458	Acidize w/ 1008 gals 15% HCl
11.457-11.458	Frac w/ 8.988 gals 25# linear, 51.464 gals YF125ST w/ 155.450# 16/30 Ottawa sand
11.756-11.757	Acidize w/ 756 gals 15% HCl
11.756-11.757	Frac w/ 8.022 gals 25# linear, 51.232 gals YF125ST w/ 155.942# 16/30 Ottawa sand
12.053-12.054	Acidize w/ 756 gals 15% HCl
12.053-12.054	Frac w/ 8.022 gals 25# linear, 51.554 gals YF125ST w/ 156.242# 16/30 Ottawa sand
12.500-12.501	Acidize w/ 756 gals 15% HCl
12.500-12.501	Frac w/ 10.164 gals 25# linear, 50.032 gals YF125ST w/ 155.540# 16/30 Ottawa sand
12.949-12.950	Acidize w/ 756 gals 15% HCl
12.949-12.950	Frac w/ 9.744 gals 25# linear, 51.614 gals YF125ST w/ 156.778# 16/30 Ottawa sand
13.353-13.354	Acidize w/ 756 gals 15% HCl
13.353-13.354	Frac w/ 10.248 gals 25# linear, 51.584 gals YF125ST w/ 156.513# 16/30 Ottawa sand
13.711-13.713	Acidize w/ 1596 gals 15% HCl
13.711-13.713	Frac w/ 8.778 gals 25# linear, 51.685 gals YF125ST w/ 157.055# 16/30 Ottawa sand
14.064-14.065	Acidize w/ 630 gals 15% HCl
14.064-14.065	Frac w/ 2940 gals 25# linear, 51.140 gals YF125ST w/ 133.850# 16/30 Ottawa sand

JRU #104H

(Stage 7 @ 11,756') SLB frac down casing: 8,022 gals 25# linear, 756 gals 15% HCl, 51,232 gals YF125ST w/ 155,942# 16/30 Ottawa. Flushed w/ 1554 gals 25# linear gel. Drop stage 8 ball in 504 gals 25# linear. (Stage 8 @ 11,457') SLB frac down casing: 8,988 gals 25# linear, 1008 gals 15% HCl, 51,464 gals YF125ST w/ 155,450# 16/30 Ottawa. Flushed w/ 1848 gals 25# linear gel. Drop stage 9 ball in 462 gals 25# linear. (Stage 9 @ 11,050') SLB frac down casing: 8,358 gals 25# linear, 756 gals 15% HCl, 51,627 gals YF125ST w/ 155,560# 16/30 Ottawa. Flushed w/ 1594 gals 25# linear gel. Drop 1st stage 10 ball in 905 gals 25# linear, 6,376 gals 25# linear, 1077 gals 15% HCl, 8,401 gals 25# linear. Dropped 2nd ball (1st did not arrive on seat). (Stage 10 @ 10,692') SLB frac down casing: 52,145 gals YF125ST w/ 161,730# 16/30 Ottawa. Flushed w/ 2142 gals 25# linear gel. Drop stage 11 ball in 546 gals 25# linear. (Stage 11 @ 10,293') SLB frac down casing: 7,686 gals 25# linear, 924 gals 15% HCl, 51,322 gals YF125ST w/ 155,800# 16/30 Ottawa. Flushed w/ 1806 gals 25# linear gel. Drop stage 12 ball in 420 gals 25# linear gel. (Stage 12 @ 9,938') SLB frac down casing: 8,358 gals 25# linear, 1050 gals 15% HCl, 51,715 gals YF125ST w/ 157,320# 16/30 Ottawa. Flushed w/ 1890 gals 25# linear gel. Drop stage 13 ball in 1974 gals 25# linear gel. (Stage 13 @ 9,539') SLB frac down casing: 5,754 gals 25# linear, 756 gals 15% HCl, 51,754 YF125ST w/ 157,400# 16/30 Ottawa. Flushed w/ 1764 gals 25# linear gel. Drop stage 14 ball in 420 gals 25# linear gel. (Stage 14 @ 9,155') SLB frac down casing: 18,270 gals 25# linear, 588 gals 15% HCl, 52,093 gals YF125ST w/ 161,040# 16/30 Ottawa. Flushed w/ 1596 gals 25# linear gel. Drop stage 15 ball in 840 gals 25# linear gel. (Stage 15 @ 8,760') SLB frac down casing: 7,308 gals 25# linear, 714 gals 15% HCl, 50,454 gals YF125ST w/ 149,940# 16/30 Ottawa. Flushed w/ 1638 gals 25# linear gel. Drop stage 16 ball in 462 gals 25# linear gel. (Stage 16 @ 8,317') SLB frac down casing: 8,568 gals 25# linear, 630 gals 15% HCl, 52,690 YF125ST w/ 155,270# 16/30 Ottawa. Flushed w/ 504 gals 25# linear gel. Drop stage 17 ball in 504 gals 25# linear gel. (Stage 17 @ 7,973') SLB frac down casing: 5,586 gals 25# linear, 51,382 YF125ST w/ 156,330# 16/30 Ottawa. Flushed w/ 1470 gals 25# linear gel. Drop stage 18 ball in 546 gals 25# linear gel. (Stage 18 @ 7,715') SLB frac down casing: 11,928# linear flush for ball to seat while waiting on last load of sand. 672 gals 25# linear to restart job, 49,501 gals YF125ST w/ 148,710# 16/30 Ottawa. Flushed w/ 11,340 gals 25# linear gel.

12/20-21/09 Wash down to 1st BFP sleeve @ 7713'. Drill out ball seats + sleeves @ 7713', 7971', 8316', 8758', 9153', 9537', 9936', 10,291', 10,690', 11,048', 11,455', 11,754' & 12,051'. EOT @ 11,573'.

12/23/09 FRIH w/ tbg to tag fill @ 12,349'. Attempt to break conv circ; attempt to regain circ w/ FAU. PUH w/ tbg to CV, release press through dart valve & replace 2-3/8" PH-6 CV. EOT @ 5017'.

12/25-12/28/09 SD for weekend.

12/29/09 RIH w/ DCs + L-80 tbg. POOH w/ PH-6 tbg to CV @ 5700'. RBIH w/ tbg to 7678' & install 1st CV.

12/30/09 CIH w/ tbg to 12,107'. Regain circulation.