DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
11-15-04		Jones	11-16-04	DHC	pSEM0432147518

RECEIVED

NOV 15 2004

OIL CONSERVATION DIVISION

ABOVE THIS LINE FOR DIVISION USE ONLY

3311

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☒ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☐ Application is One Which Requires Published Legal Notice

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: *Statement must be completed by an individual with managerial and/or supervisory capacity.*

Kay Maddox	Kay Maddox	Regulatory Agent	11/12/2004
Print or Type Name	Signature	Title	Date

MMaddox@conocophillips.com
e-mail Address

District I
1625 N. French Drive, Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107A
Revised June 10, 2003

APPLICATION TYPE
X Single Well
___ Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes ___ No

DHC-337

ConocoPhillips Company		4001 Penbrook Street Odessa, TX 79762	
Operator		Address	
Hardy 36 State	# 3	Unit Ltr G, Sec 36, T-20-S, R-37-E	Lea County
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. 217817 Property Code 013396 API No. 30-025-32479 Lease Type: ___Federal X State ___Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	~~Wildcat~~ UNDES Blinebry Oil Gas	No Hardy Tubb Drinkard oil	
Pool Code	~~97177~~ 6660	96356	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	5634-5790'	6390-6842'	
Method of Production (Flowing or Artificial Lift)	Artificial	Artificial	
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	NA	NA	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	39	38.3	
Producing, Shut-In or New Zone	Shut-in	Shut-in	
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: 12/ /2002 Rates: 2 BO, 20 MCF Per day	Date: 11/ /1997 Rates: 10 BO, 150 MCF Per day	Date: Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 20 % Gas 10.5 %	Oil 80 % Gas 89.5 %	Oil % Gas %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes X No ___
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ___ No ___

Are all produced fluids from all commingled zones compatible with each other? Yes X No ___

Will commingling decrease the value of production? Yes ___ No X

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes ___ No ___

NMOCD Reference Case No. applicable to this well: ___

Attachments:
C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
Production curve for each zone for at least one year. (If not available, attach explanation.)
For zones with no production history, estimated production rates and supporting data.
Data to support allocation method or formula.
Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools
List of all operators within the proposed Pre-Approved Pools
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Kay Maddox TITLE Regulatory Agent DATE 11/12/2004

TYPE OR PRINT NAME Kay Maddox TELEPHONE NO. ( ) (432)368-1368

E-MAIL ADDRESS mmaddox@conocophillips.com

District I
PO Box 1980, Hobbs. NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd. Aztec, NM 87410

District IV
PO Box 2088, Santa Fe. NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form
Revised February 2
instructions o
Submit to Appropriate District
State Lease - 4
Fee Lease - 3
☐ AMENDED RE

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	2 Pool Code	3 Pool Name
30-025-32479	97177	WIldcat Blinebry

4 Property Code	5 Property Name	6 Well Number
013396	Hardy 36 State	#3

7 OGRID No.	8 Operator Name	9 Elevation
217817 ~~005073~~	Conoco Inc., 10 Desta Drive, Ste. 100W, Midland, TX 79705-4500	3497'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	36	20S	38E		2080	North	1730	East	Lea

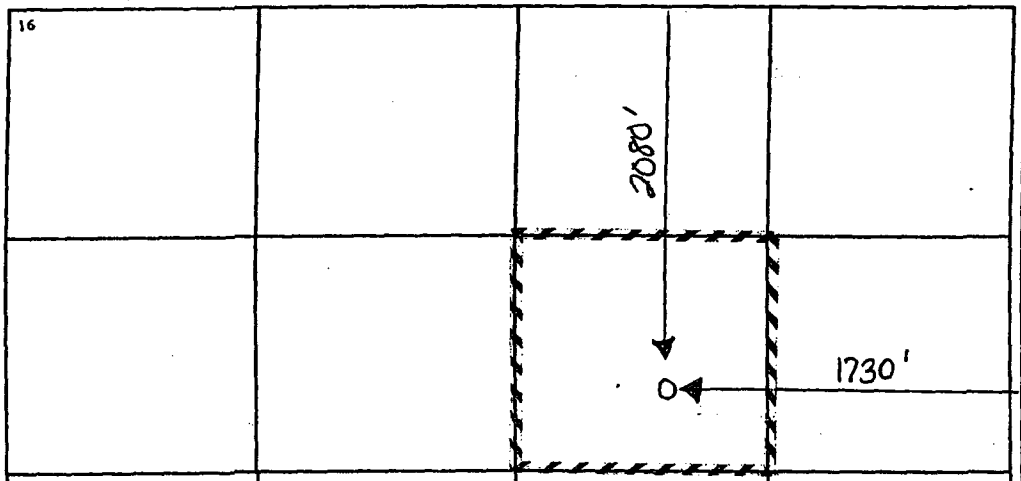
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infil	14 Consolidation Code	15 Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATE
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



17 OPERATOR CERTIFICATIO

I hereby certify that the information contained herein i
true and complete to the best of my knowledge and beli

Kay Maddox
Signature

Kay Maddox
Printed Name

Regulatory Agent
Title

April 6, 2001
Date

18 SURVEYOR CERTIFICATIO

*I hereby certify that the well location shown on this pl
was plotted from field notes of actual surveys made by m
or under my supervision, and that the same is true and
correct to the best of my belief.*

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C
Revised February 10,
Instructions on
Submit to Appropriate District C
State Lease - 4 C
Fee Lease - 3 C

☐ AMENDED REP

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
30-025-32479	96356	North Hardy Tubb Drinkard

⁴ Property Code	⁵ Property Name	⁶ Well Number
013396	HARDY 36 STATE	3

⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
217817	CONOCO, INC.	3497

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	36	20-S	37-E		2080	NORTH	1730	EAST	LEA

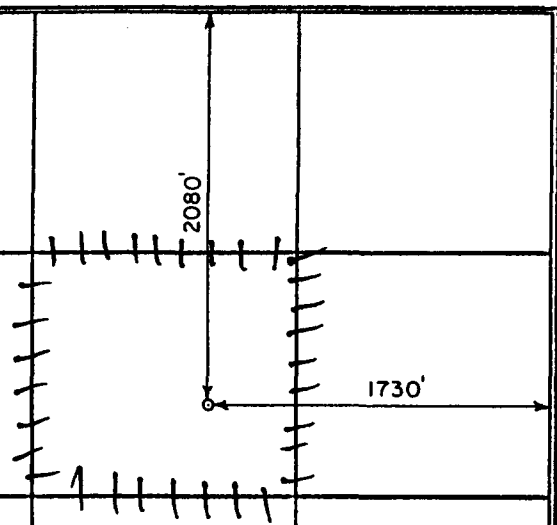
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
40			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATEI
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16



¹⁷ OPERATOR CERTIFICATIO

I hereby certify that the information contained herein i true and complete to the best of my knowledge and bel

Kay Maddox
Signature

KAY MADDOX
Printed Name

Regulatory Agent
Title

11/3/2004
Date

¹⁸ SURVEYOR CERTIFICATIO

I hereby certify that the well location shown on this pl was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

4/12/94
Date of Survey

Signature and Seal of Professional Surveyer:

EARL FOOTE
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
8278

Earl Foote

8278
Certificate Number

ConocoPhillips
Hardy 36 State #3
C-107A Downhole Commingle attachment

% ALLOCATION METHOD

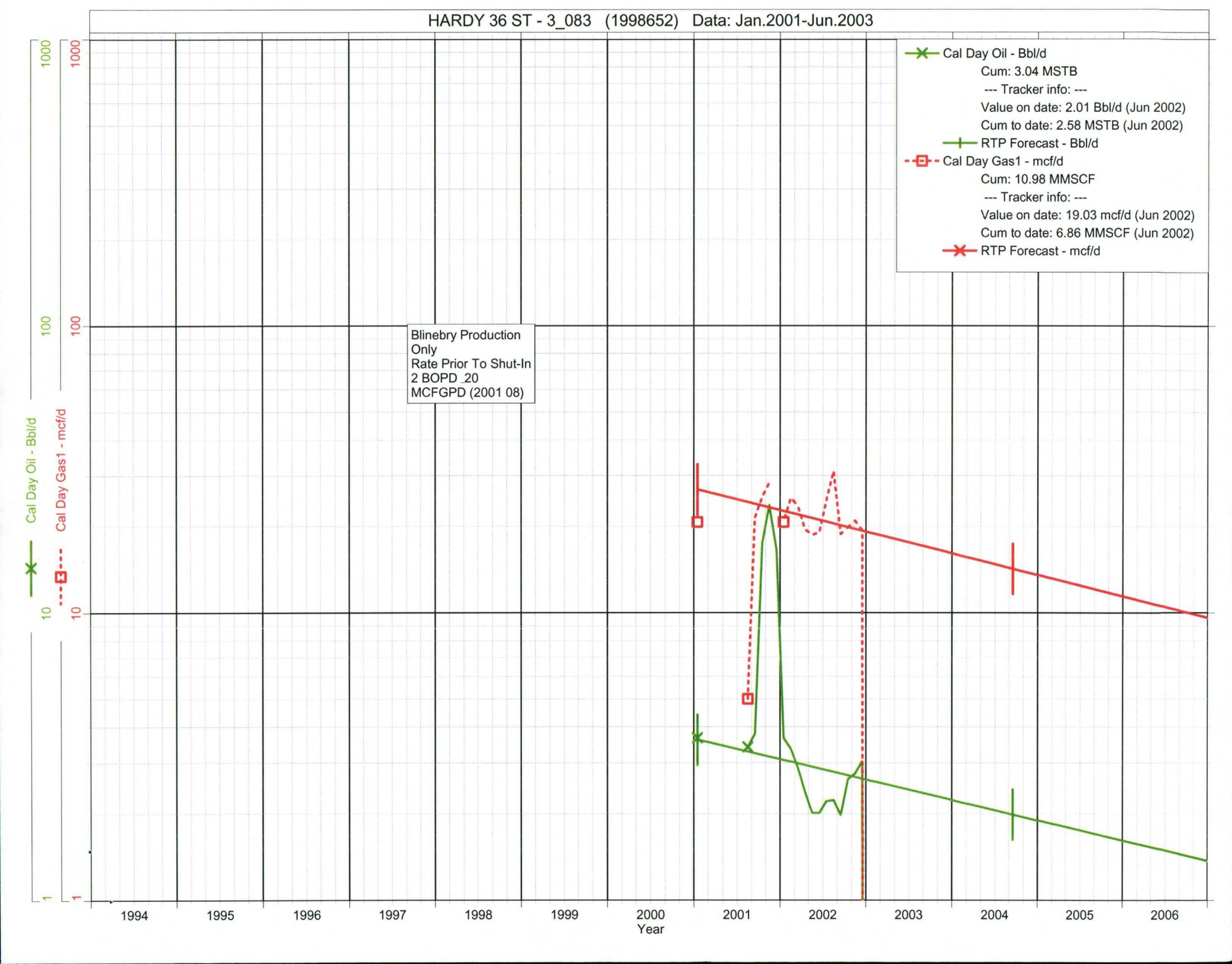
% Blinebry = BL/Total

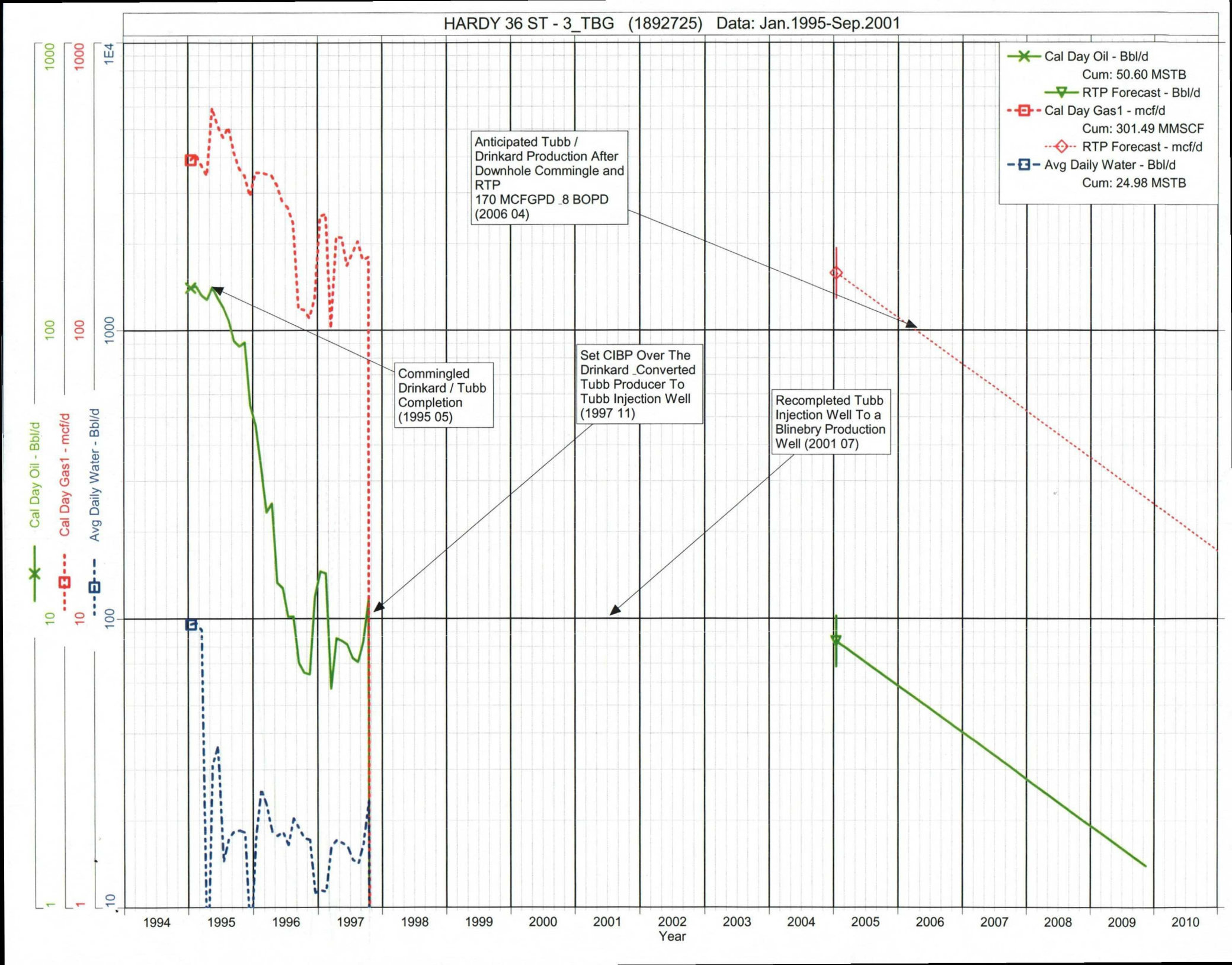
$$= \frac{2 \text{ BOPD}}{10 \text{ BOPD}} = 20\%$$

$$\% \text{ Blinebry} = \frac{20 \text{ MCF}}{190 \text{ MCF}} = 10.5\%$$

% Tubb = 1-.2 = 80% Oil

% Tubb = 1- .105 = 89.5% Gas


HARDY 36 ST - 3_083 (1998652) Data: Jan.2001-Jun.2003
Cal Day Oil - Bbl/d
Cum: 3.04 MSTB
--- Tracker info: ---
Value on date: 2.01 Bbl/d (Jun 2002)
Cum to date: 2.58 MSTB (Jun 2002)
RTP Forecast - Bbl/d
Cal Day Gas1 - mcf/d
Cum: 10.98 MMSCF
--- Tracker info: ---
Value on date: 19.03 mcf/d (Jun 2002)
Cum to date: 6.86 MMSCF (Jun 2002)
RTP Forecast - mcf/d
Blinebry Production Only
Rate Prior To Shut-In
2 BOPD _20
MCFGPD (2001 08)
Cal Day Oil - Bbl/d
Cal Day Gas1 - mcf/d
1000
100
10
1
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
Year


HARDY 36 ST - 3_TBG (1892725) Data: Jan.1995-Sep.2001
Cal Day Oil - Bbl/d
Cum: 50.60 MSTB
RTP Forecast - Bbl/d
Cal Day Gas1 - mcf/d
Cum: 301.49 MMSCF
RTP Forecast - mcf/d
Avg Daily Water - Bbl/d
Cum: 24.98 MSTB
Anticipated Tubb / Drinkard Production After Downhole Commingle and RTP
170 MCFGPD _8 BOPD
(2006 04)
Commingled Drinkard / Tubb Completion (1995 05)
Set CIBP Over The Drinkard _Converted Tubb Producer To Tubb Injection Well (1997 11)
Recompleted Tubb Injection Well To a Blinebry Production Well (2001 07)
Cal Day Oil - Bbl/d
Cal Day Gas1 - mcf/d
Avg Daily Water - Bbl/d
1E4
1000
100
10
1
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
Year

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
May 27, 2004

Submit to appropriate District Office

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

[1] Operator Name and Address	[2] OGRID Number / [3] API Number
ConocoPhillips 4001 Penbrook Odessa, TX 79762	217817 30-025-32479

[4] Property Code	[5] Property Name	[6] Well No.
013396	Hardy 36 State	#3

[9] Proposed Pool 1	[10] Proposed Pool 2
North Hardy Tubb Drinkard (96356)	Wildcat Blinebry

[7] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County
G	36	20S	37E		2080	North	1730	East	Lea County

[8] Proposed Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Westline	County

Additional Well Information

[11] Work Type Code	[12] Well Type Code	[13] Cable/Rotary	[14] Lease Type Code	[15] Ground Level Elevation
A	M	Rotary	S	3497'
[16] Multiple	**[17] Proposed Depth**	**[18] Formation**	**[19] Contractor**	**[20] Spud Date**
Yes				

Depth to Groundwater	Distance from nearest fresh water well	Distance from nearest surface water

Pit: Liner: Synthetic ☐ ____ milsthick Clay ☐ Pit Volume: ____ bbls Drilling Method:

Closed-Loop System ☐ Fresh Water ☐ Brine ☐ Diesel/Oil-based ☐ Gas/Air ☐

[21] Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC

[22] Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

This well is currently completed in the Blinebry with a CIBP over the Tubb Drinkard interval - ConocoPhillips proposes to drill out the CIBP, acidize and then put the well back on production as a downhole comingled North HardyTubb Drinkard/ Wildcat Blinebry well. They propose to do this using the attached procedure.

[23] I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify that the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Kay Maddox

Printed name: Kay Maddox

Title: Regulatory Agent

E-mail Address:

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: Expiration Date:

ConocoPhillips

Hardy 36 State No. 3

Drill Out CIBP's Over Tubb & Drinkard & Downhole Commingle With Blinebry Procedure
(Current Shut-In Well)

Location:	2080' FNL & 1730' FEL, Sec. 36 – T20S, R37E, Lea County, NM
Charges:	(Cost Estimate $00,000)
Spud Date:	05/1994
Shut-In Date:	Dec 2002 (Failed Not Repaired Due to Marginal Production)
API Number:	30025 - 32479
Zone/Pool:	Blinebry
Battery Destination:	Existing Battery
TD:	6994'
PBTD:	Unknown
DV Tools:	4877'
KBE:	3506'
GLE:	3497'
KBM:	9' above GL

Existing Casing:

Csg Size (in)	Depth (ft)	Wt (lb/ft)	Grade	Conn	Drift ID	Burst (psi)	Coll * (psi)
9-5/8	1381'	36	K-55				
7	7000'	26	K-55	LT&C	6.151	4980	4320

Project Overview:

It is recommended that the Hardy State No. 3 Blinebry well be placed back on production as a downhole commingled Tubb/Drinkard & Blinebry well. The Hardy No. 3 well failed in Dec 2002 and was not repaired due to its marginal production from the Blinebry zone estimated at 2 BOPD. This procedure consists of drilling out the CIBP's set above the Tubb and Drinkard zones, performing a small acid clean-up stimulation job over all the intervals then returning the well to production as a downhole commingled Drinkard/Tubb/Blinebry well. The well is expected to produce 10 BOPD, 150 MCFGPD and an estimated 100 to 200 BWPD.

The Hardy No. 3 well was originally completed in 1994 in the Tubb interval from 6390' to 6595' OA and the Drinkard interval from 6738' to 6842'. The well was placed on beam pump as a downhole commingled producer making approximately 10 BOPD and 150 MCFGPD before being converted to a Tubb injection well in November 1997. In Aug 2001 the No. 3 injection well was recompleted to the Blinebry making approximately 2 BOPD and 20 MCFGPD until it failed in Dec 2002.

This well is on the list of wells that the NMOCD requires either RTP or plug and abandon by yearend 2004

Perforations:

Existing Blinebry:	5634'- 5642' 5650'- 5662' 5746'- 5754' 5780'- 5790'
Tubb (Under CIBP @ 6375'):	6390' – 6593' OA
Drinkard (Under CIBP @ 6700'):	6738'-6842' OA

Well Control Requirements:

Well Control: Well Control equipment and procedures will be in accordance with the ConocoPhillips Well Control Manual, Second Edition, Revision Two, dated August 1994.

Well Category: All three zones Blinebry, Tubb & Drinkard were originally normally pressured zone but are now at different stages of depletion. Since 9.5 ppg kill fluid will be used throughout the procedure the well is not anticipated to flow at any time during the operation. This well is to be considered a Category 1 well since the well is expected to produce less than 500 MCFGPD and is incapable of developing a 100 ppm H2S ROE greater than 50'. Category 1 wells require one untested barrier. Approval has been granted for use of a dynamic fluid column as that barrier.

BOPE Class 2: For operations the MPSP for this well is estimated to be less than 2000 PSIG. A Class 2 BOP stack is required since these last gas analysis indicated 1000 ppm H2S. The stack will rated for a minum of 5,000 PSIG WP consisting of a hydraulic operated tubing rams on top and a set of blind rams on bottom. NU shop tested BOP stack on top of companion flange. Test as per SOP.

Kill Fluid: Treated 9.5 ppg brine water for duration of operations

Drinkard/Tubb/Blinebry Artificial Lift Specs:
(See attached beam pump design for additional information)

PU Specs:	American D228-213-86
Source:	Existing
Electrical:	GE Size 3
PU Controller:	Yes
Tubing:	2 3/8" J-55 Tubing
Rod String:	6/6 Rod String (217, ¾" rods – 5425')
Rod Pump:	20-150-RHBC-20-6-00 Type "A"
Stroke Length:	86"
PU Speed:	6.5 SPM

Procedure

Note: All depths referenced to 9.0' RKB.

1. RU pulling. Hook up water transport to the casing and kill well with 130 bbls of 9.5 ppg treated brine water. Use dynamic head kill procedure during installation / removal of BOP stack and tripping, if necessary.
2. TOOH with 5425' of 3/4" rods with 3, 1 3/8" K bars. Visually inspect rods for worn couplings and pitting. Lay down any worn or pitted rods.

3. NU 5,000 PSIG WP hydraulic operated BOPE and test to 250/5000 PSIG. RU tubing scanning equipment and TOOH laying down the production tubing. TAC set at approximately 5459' with SN at approximately 5585'.

4. MIRU reverse unit and circulating pits. PU 6 1/8" bit, drill collars on 2 7/8" workstring and TIH to drill out cement cap and CIBP set at 6375' with cement top estimated at 6340'. Continue in the hole to drill out a second CIBP set at 6700' with cement top estimated at 6665'. TOOH with bit and collars.

5. PU 6 1/8" bit and casing scrapers and TIH to tag PBTD at 6954'. Reciprocate scrapers across intervals 6340' to 6375' and 6665' to 6700'. TOOH with bit and scrapers.

6. PU a CS1 10 M treating packer for 7" 26 ppf casing and TIH to set at 6650'. Hydro-test each stand to 6,000 PSIG while tripping.

7. RU Schlumberger treating services. Install 10 M PSIG WP frac valve on the tubing. Install treating line with nitrogen actuated relief valve. Test the tree and treating line to 6000 PSIG and set the relief valve at 4300 PSIG. RU pump truck on the backside and attempt to keep the backside loaded by pumping ¼ BPM via the casing during the stimulation job. Pump the acid treatment per the attached Schlumberger recommendation. Do not exceed 4000 PSIG treating pressure.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	**6000**	**PSIG**
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system. Burst pressure of 7" casing.	**4980**	**PSIG**
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : 300 psig less than 90% MAWP or, 300 psig over MATP	**4300**	**PSIG**
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	**4000**	**PSIG**
MAXIMUM ANTICIPATED TREATING PRESSURE:	**3000**	**PSIG**

Drinkard Acid Stimulation:

- Load tubing and establish injection rate with 50 bbls of 2% KCL slick water
- Pump 2,000 gals of 15% NEFE HCL acid at 5 BPM containing 150 1.3 SG, 7/8" RCN ball sealers.
- Over displace breakdown with 50 bbls of 2% KCL slick water.
- Surge balls off perforations.

8. RD Schlumberger pumping services. Flow back the well until it dies.

9. Release the packer and TOOH with the tubing and packer.

10. PU 7" RBP with ball catcher and CS-1 10 M treating packer or equilivant and TIH to set the RBP at approximately 6650'. Hydro-test each stand to 7,000 PSIG while tripping.

11. PU a couple of feet, load the tubing and pressure test the plug to 2,000 PSIG. Release the packer and PU to 6300'. Set the packer.

8. RU Schlumberger treating services. Install 10 M PSIG WP frac valve on the tubing. Install treating line with nitrogen actuated relief valve. Test the tree and treating line to 6000 PSIG and set the relief valve at 4300 PSIG. RU pump truck on the backside and attempt to keep the backside loaded by pumping ¼ BPM via the casing during the stimulation job. Pump the acid treatment per the attached Schlumberger recommendation. Do not exceed 4000 PSIG treating pressure.

TREATING LINE TEST PRESSURE: A minimum 1000 psig over MATP	**6000**	**PSIG**
MAXIMUM ALLOWABLE WORKING PRESSURE: Based on weakest component in system. Burst pressure of 7" casing.	**4980**	**PSIG**
NITROGEN POP OFF SET PRESSURE: Relief pressure set at the lesser of : 300 psig less than 90% MAWP or, 300 psig over MATP	**4300**	**PSIG**
MAXIMUM ALLOWABLE TREATING PRESSURE: If reached, human action required.	**4000**	**PSIG**
MAXIMUM ANTICIPATED TREATING PRESSURE:	**3000**	**PSIG**

Tubb Acid Stimulation:

- Load tubing and establish injection rate with 50 bbls of 2% KCL slick water
- Pump 3,000 gals of 15% NEFE HCL acid at 5 BPM containing 300 1.3 SG, 7/8" RCN ball sealers.
- Over displace breakdown with 50 bbls of 2% KCL slick water.
- Surge balls off perforations.

12. RD Schlumberger pumping services. Flow back the well until it dies.

13. Release the packer, drop down and retrieve the RBP with ball catcher and TOOH laying down the tubing RBP and packer.

14. TIH with approximately 6,900' of 2 3/8", J-55 production tubing with the open ended SN on bottom of the tubing and a 7" TAC. The bottom joint to be polylinned. Space the tubing out to set the seating nipple at approximately 6,900' (or 60' below the bottom Drinkard perforation with the TAC at approximately 5570' (60' above the top Blinebry perforation).

12. ND the BOP stack and install the B-1 adapter flange. Pump corrosion inhibitor down the tubing to coat the rods and pump as they are run in the hole. PU standard strainer nipple on the bottom of the 25-175-RHBC 20-6-00 2 Stage HVR Type "A" pump on 7/6 KD "Existing" rod string and RIH to place on beam pump. **(See attached Drinkard/Tubb/Blinebry Beam Pump Design.** RD and move off.

13. Notify Champion prior to placing the well on production. As soon as the well is started have it placed on scheduled CI truck treatments. **Schedule a backside scale squeeze as soon as the fluid level is pumped off.**