

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
March 4, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-10218
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Lou Worthan
8. Well Number 9
9. OGRID Number 14021
10. Pool name or Wildcat Blinebry 72480 / Tubb 86440

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other Downhole Commingle	7. Lease Name or Unit Agreement Name: Lou Worthan
2. Name of Operator Marathon Oil Company	8. Well Number 9
3. Address of Operator P.O. Box 3487, Houston Texas 77253-3487	9. OGRID Number 14021
4. Well Location Unit Letter E : 1905 feet from the North line and 440 feet from the West line Section 11 Township 22S Range 37E NMPM County Lea	10. Pool name or Wildcat Blinebry 72480 / Tubb 86440
11. Elevation (Show whether DR, RKB, RT, GR, etc.) GL 3366'	

Pit or Below-grade Tank Application (For pit or below-grade tank closures, a form C-144 must be attached)

Pit location: UL _____ Sect _____ Twp _____ Rng _____ Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____
Distance from nearest surface water _____ Below-grade Tank Location UL _____ Sect _____ Twp _____ Rng _____ ;
_____ feet from the _____ line and _____ feet from the _____ line

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐
CASING TEST AND CEMENT JOB ☐

OTHER: **Downhole Commingle** ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marathon Oil is requesting that the DHC Order No. HOB -0062 be amended to reflect the correct gas reservoir numbers for the Lou Worthan No. 9 well. The original DHC request filed dated as 11/12/2003 was filed with the wrong pool codes for both the Blinebry and the Tubb reservoirs. This well has always been classified as a gas well in both zones, and it will not meet the GOR specifications for oil wells in either zone.

Please see the attached revised details for the well.

DHC Order No. **HOB-0062A**

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOC guidelines ☐ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

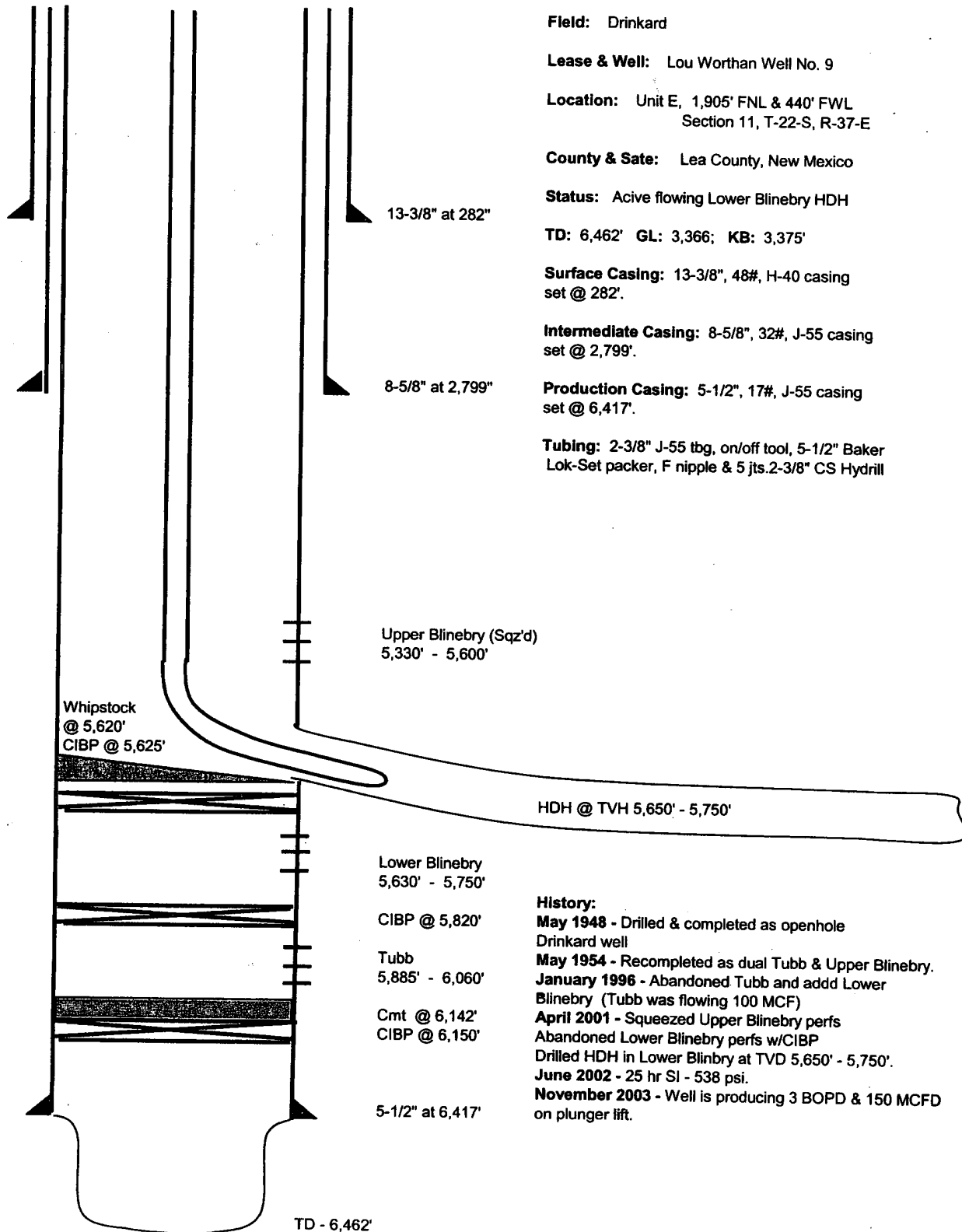
SIGNATURE Charles E. Kendrick TITLE Engineering Technician DATE 07/07/2004
Type or print name **Charles E. Kendrick** E-mail address: **cekendrix@MarathonOil.com** Telephone No. **713-296-2096**

(This space for State use)

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE OCT 26 2004
Conditions of approval, if any:

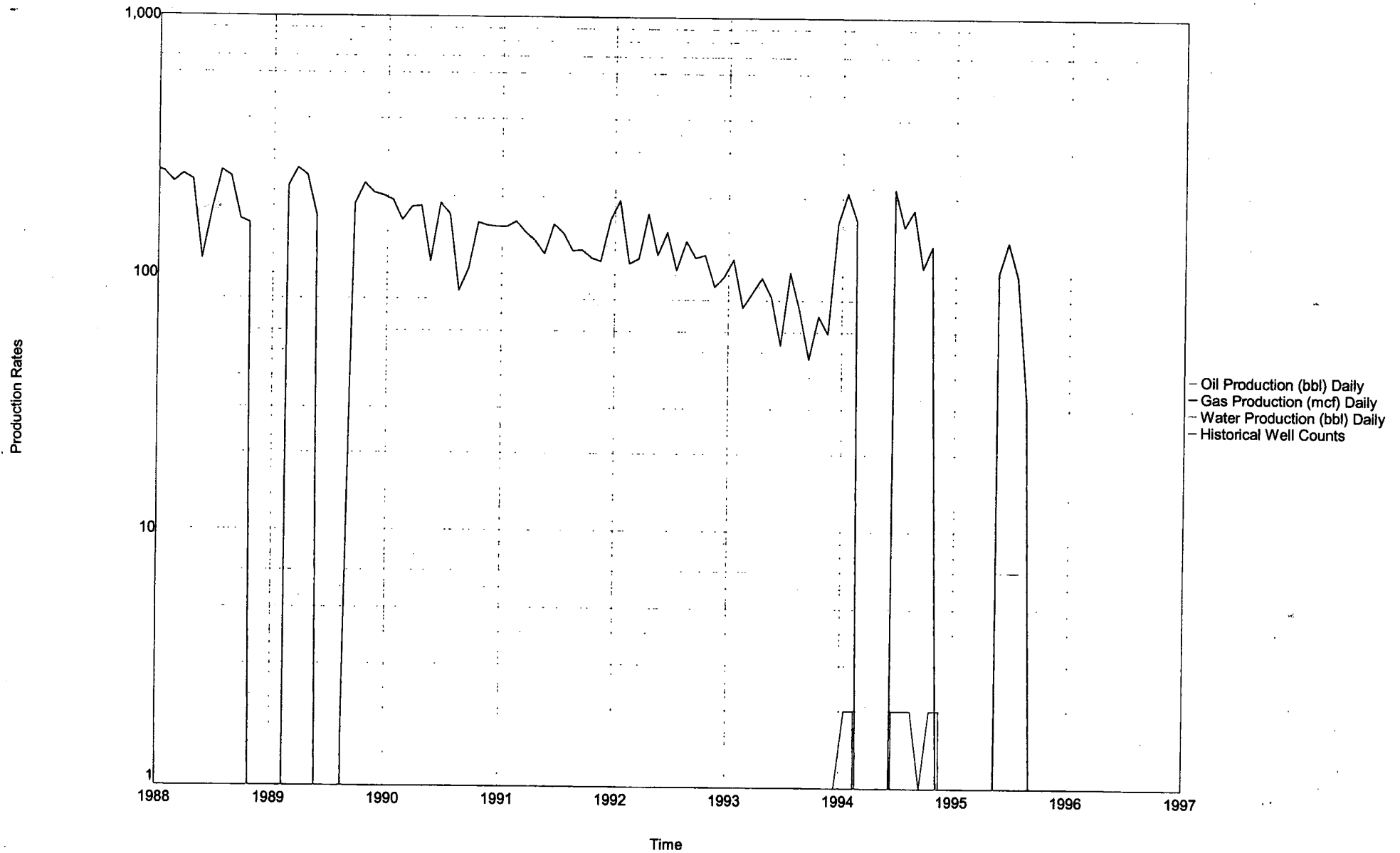
Lou Worthan No. 9
DHC Attachment

- i.) Pre-approved pool status was established by Division Order R-11363
- ii.) Blinebry Oil & Gas (72480) & Tubb Oil & Gas (86440)
- iii.) Blinebry Oil & Gas (5,330' – 5,750') and HDH @ TVD 5,650' – 5,750'
Tubb Oil & Gas (5885' – 6060')
- iv.) Blinebry Oil & Gas (80% gas & 100% oil), Tubb Oil & Gas (20% gas & 0% oil)
- v.) The proposed commingling will not reduce the value of the total remaining production.
- vi.) The ownership and percentages of ownership are identical for the zones.



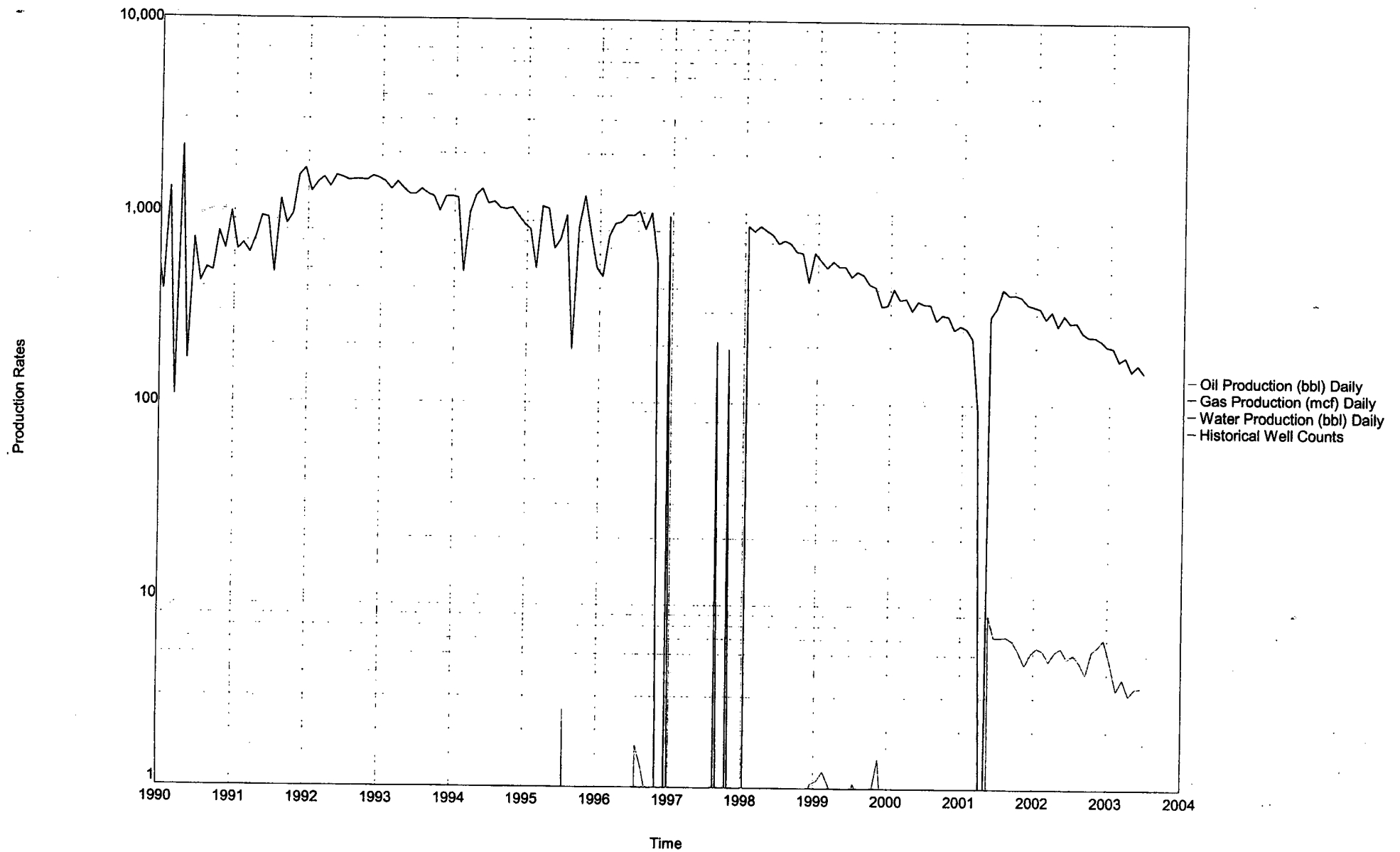
Lease Name: LOU WORTHAN 9
County, State: LEA, NM
Operator: MARATHON OIL COMPANY
Field: TUBB
Reservoir: TUBB
Location:

LOU WORTHAN - TUBB



Lease Name: LOU WORTHAN 9
County, State: LEA, NM
Operator: MARATHON OIL COMPANY
Field: BLINEBRY
Reservoir: BLINEBRY
Location:

LOU WORTHAN - BLINEBRY



**Workover Procedure
Lou Worthan Well No. 9
1,905' FNL & 440' FWL, Unit E
Section 11, T-22-S, R-37-E
Lea County, New Mexico**

Date: 11/12/2003

WBS #s:

AFE Cost: \$60,000

WI: 100.0% **NRI:** 87.5%

Elevation: **GL:** 3,366' **KB:** 3,375' **TD:** 6,462'

Purpose: **Add Upper Blinebry and downhole commingle w/ HDH in Lower Blinebry and Tubb & Place on rod pump**

Surface Casing: 13-3/8", 48#, H-40 casing set at 282'.

Intermediate Casing: 8-5/8", 32# casing set at 2,799'.

Production Casing: 5-1/2", 17# casing set at 6,417'.

Tubing: 2-3/8" J-55 tbg, on/off tool, 5-1/2" Baker Lok-Set packer, F Nipple, 5 jts 2-3/8" CS Hydrill

Current Completion: **Lower Blinebry** HDH drilled at TVD of 5,650' – 5,750'
Whipstock at 5,620'
Well is on plunger lift

Squeezed Perforations: **Upper Blinebry** 5,330-5,430 & 5,455-5,502 (4 spf)
5,535-5,557, 5,565-5,600 (2 spf)

TA Perforations (CIBP): **Lower Blinebry** 5,630-5,557, 5,565-5,600 (2 spf)
5,715-5,735, 5,745-5,765 (2 spf)

TA Perforations (CIBP): **Tubb** 5,885-5,938, 48-71, 5,980-6,004 15-33, 42-60 (4 spf)

Special Considerations: Use limited amounts of 2% KCL for kill fluid.
Verify current tbg tally w/Hobbs office prior to RU.

Procedure:

1. Inspect surface location and improve if necessary. Test safety anchors to 22,500#.
2. Catch plunger at surface.
3. MIRU WOR and reverse unit. Kill well w/limited amounts of 2% KCl.
4. ND wellhead. NU 3M BOPE. Release packer and POOH w/2-3/8" tbg string. Visually inspect and replace as necessary.
5. TIH w/retrieving head for Baker bottom trip retrievable whipstock assembly, drill collars, bumper sub on 2-3/8" tbg. Latch onto whipstock at 5,620' and POOH w/ whipstock.
6. TIH w/ 4-3/4" bit, drill collars on 2-3/8" tbg and drill out CIBPs at 5,625 & 5,820'. Drill/push CIBPs to PBTD of ~ 6,142'. POOH w/drilling BHA..
7. MIRU Baker Atlas and lubricator. Test lubricator to 1,000 psi. RIH with 4-1/2" carrier loaded with TAG 5000 382 GH 39 gram charges (EH: 0.46" Pen: 37.4"). Perforate Upper Blinebry with 4 JSPF, 90 deg. from 5,330'-5,430', 5,455'-5,505', 5,535-5,557' & 5,565'-5,600' (868 holes). POOH. RD Baker Atlas.
8. TIH w/5-1/2" washtool. RU Acid Company. Acidize new Blinebry perforations w/ 50 gals/ft of 15% NEFE acid (total of 11,000 gals). Flush w/ 2% KCl water. RD Acid Company. Swab back acid load. TOH w/washtool.
9. TIH w/mud anchor, SN, 2-3/8" tbg, 5-1/2" TAC on 2-3/8" production tbg. Space out tubing w/SN ~6,100 and TAC at 6,450'.
10. ND BOPE and NU wellhead. TIH w/pump & rods. Space out pump. Hang well on. Connect surface equipment. RD WOR and MOL. Start pumping well to production facilities.