

Submit 3 Copies To Appropriate District Office  
District I  
1625 N. French Dr., Hobbs, NM 88240  
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  
Revised June 10, 2003

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
10. Pool name or Wildcat Blinebry & Tubb

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 ☒ Gas Well ☐ Other

2. Name of Operator  
Marathon Oil Company

3. Address of Operator  
P.O. Box 552 Midland, TX 79702

4. Well Location

Unit Letter E : 1,905' feet from the North line and 440' feet from the West line

Section 11 Township 22s Range 37E NMPM Lea County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)  
3,366' - GL

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 ☐

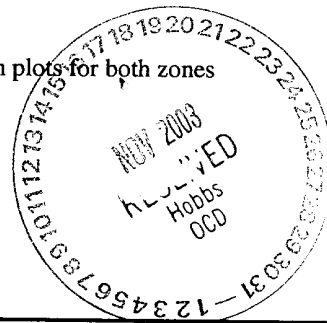
OTHER: ☐

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 Company requests authorization to downhole commingle the Blinebry & Tubb pools in the Lou Worthan #9. The scope of the proposed workover is to drill out bridge plugs to reactivate a temporarily abandoned Tubb zone, add selective perforations in the Blinebry from 5,330' - 5,600' and place the well on rod pump.

Please find attached a detailed procedure of the planned work, a wellbore diagram, and production plots for both zones

DHC Order No. HOB-0062



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

SIGNATURE Brent Lockhart TITLE Engineer DATE 11/12/03

Type or print name Brent Lockhart E-mail address: BDLockhart@MarathonOil.com Telephone No. 432-687-8284

(This space for State use)

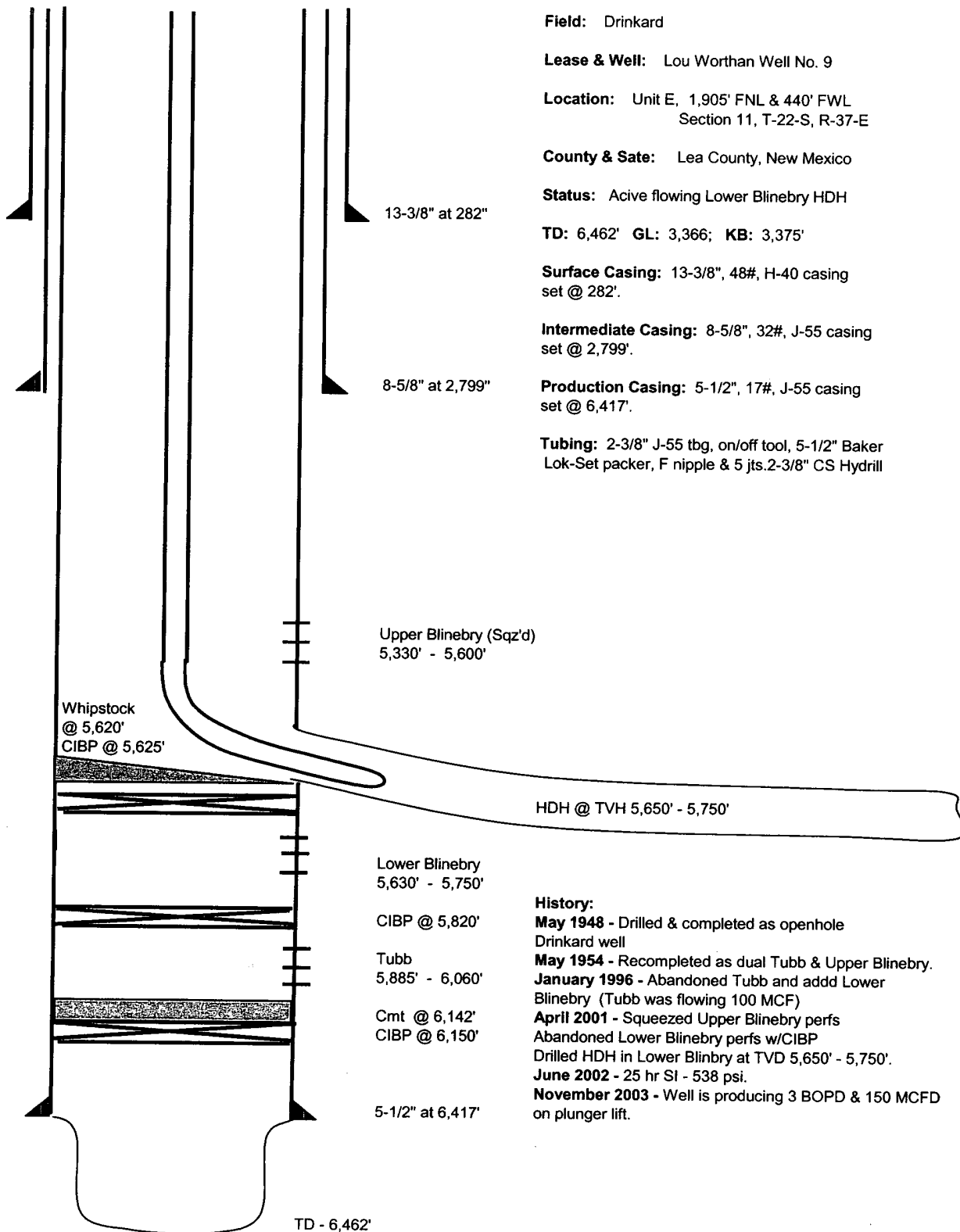
(713) 296-2224

APPROVED BY [Signature] TITLE  DEC 10 2003

Conditions of approval, if any:

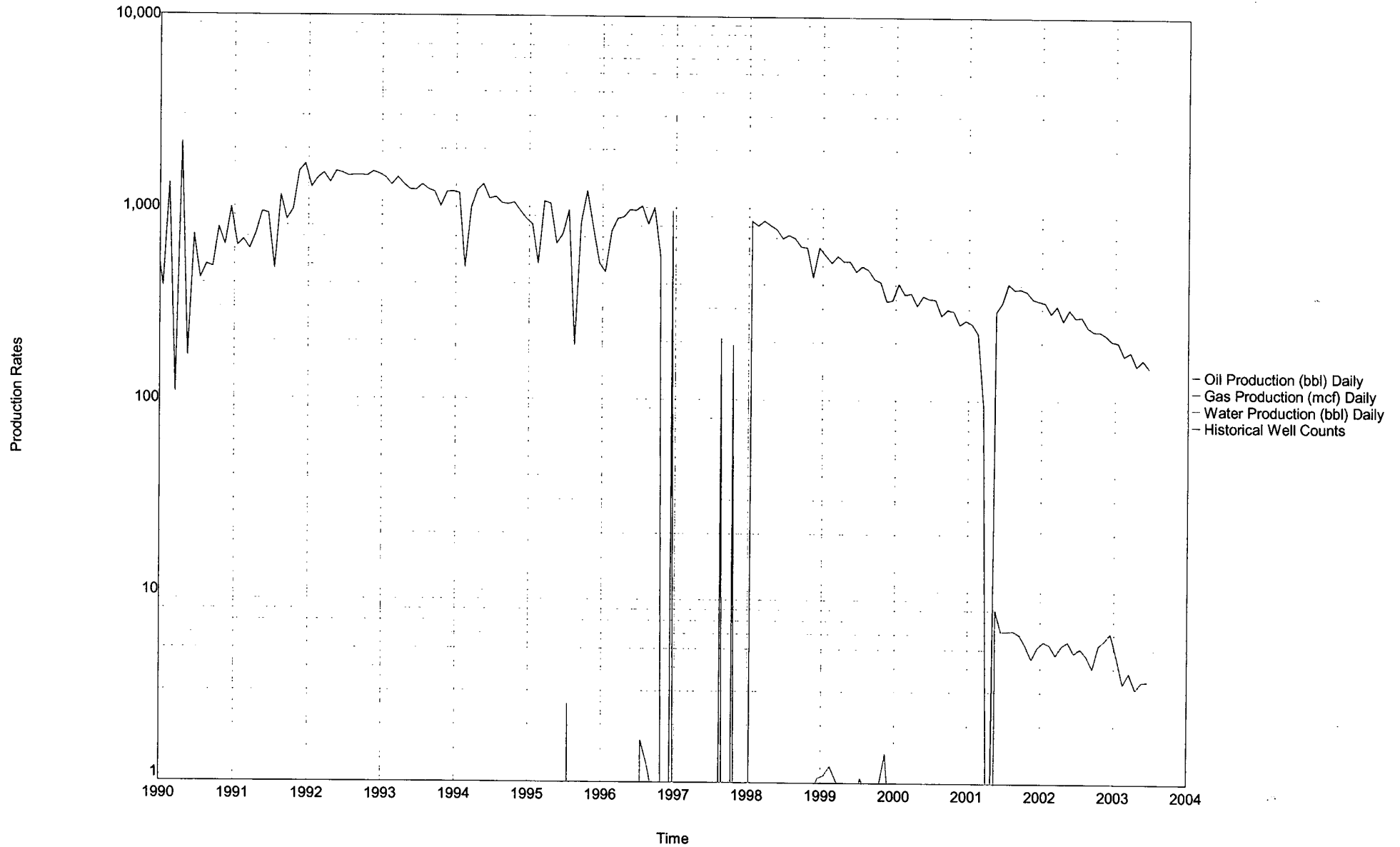
**Lou Worthan Well No. 09**  
**DHC Attachment**

- i) Pre-approved pool status was established by Division Order R-11363
- ii) Blinebry Oil & Gas – Oil (6660) & Tubb Oil & Gas – Oil (60240)
- iii) Blinebry Oil & Gas – Oil (5,330' – 5,750' and HDH @ TVD 5,650' – 5,750')  
& Tubb Oil & Gas – Oil (5,885' – 6,060')
- iv) Blinebry Oil & Gas – Oil (80% gas & 100% oil) & Tubb Oil & Gas – Oil  
(20% gas & 0% oil). Supported from tests prior to temporary abandonment.
- v) The proposed commingling will not reduce the value of the total remaining  
production
- vi) The ownership and percentages are identical for the zones



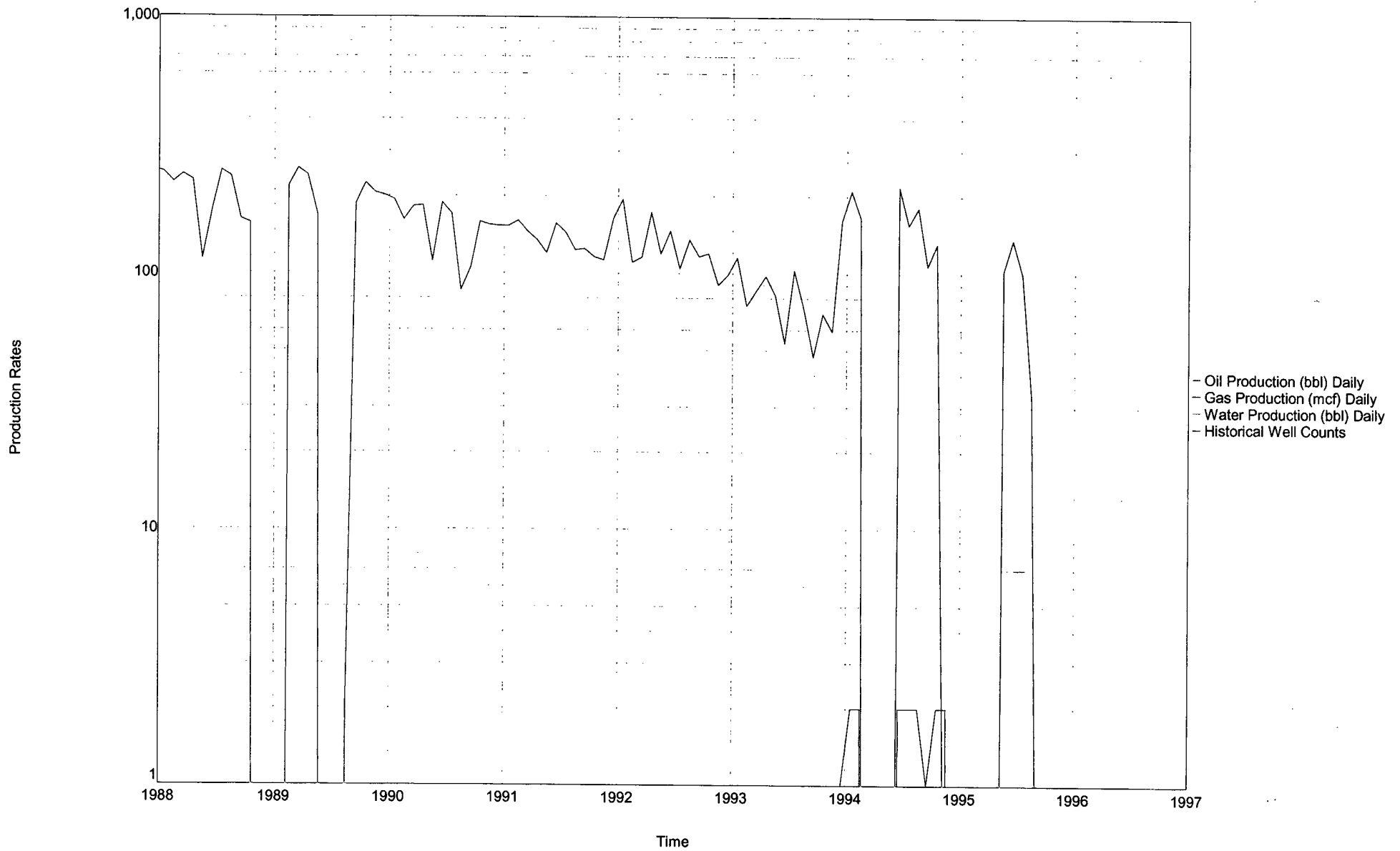
Lease Name: LOU WORTHAN 9  
County, State: LEA, NM  
Operator: MARATHON OIL COMPANY  
Field: BLINEBRY  
Reservoir: BLINEBRY  
Location:

LOU WORTHAN - BLINEBRY



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

LOU WORTHAN - TUBB



**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)  
5,535-37, 5,565-5,600 (2 spf)

**TA Perforations (CIBP):**    **Lower Blinebry**    5,630-35, 55-65, 80-90  
5,715-20, 25-35, 40-50 (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.