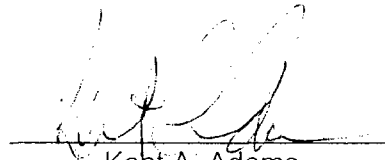


Projected Oil Response from Injection into Poker Lake Unit #188Y and #227

In order to estimate the benefit of injection into the Poker Lake Unit #188Y and the Poker Lake Unit #227, an evaluation of the analogous injection by Maralo Inc. into the Charger 29 Federal #1 was performed. The Charger 29 Federal #1 is located approximately 1 mile to the north of BEPCo L.P.'s Nash Draw Field development. A map of the area is presented in attachment 1. Injection into the Lower Brushy Canyon began in June 1997. At the commencement of injection, the Gold Rush 30 Federal #3 and the Gold Rush 30 Federal #4 directly offset the Charger 29 Federal #1. Production curves for these two wells are presented in attachments 2 and 3. Both wells observed secondary oil response from the offset injection, which is plotted in attachment 4. Plots of oil production rate versus cumulative oil production were created (attachments 5, 6, 7, & 8) to evaluate the additional reserves recovered as a result of injection into the Charger 29 Federal #1. The Gold Rush 30 Federal #3 had projected reserves of 52 MBO prior to injection into the Charger #1 and 62 MBO after injection began giving reserves attributed to secondary recovery of 10 MBO and a secondary to primary ratio (S/P) of 0.2. The Gold Rush 30 Federal #4 had projected reserves of 56 MBO prior to injection and 81 MBO after injection for secondary reserves of 25 MBO and an S/P ratio of 0.45.

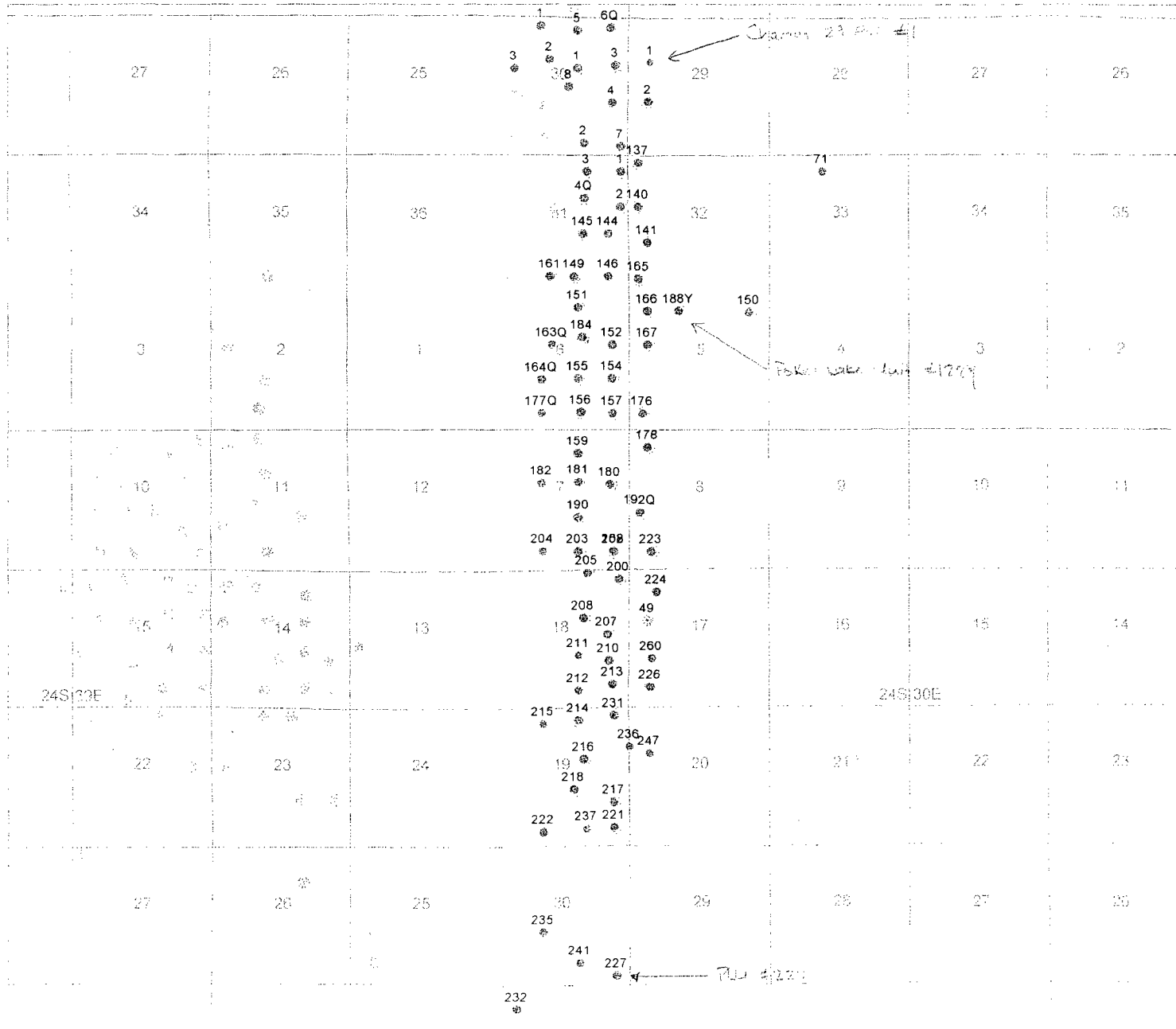
Attachments 9 and 12 show a map of the area immediately surrounding each proposed conversion. A conservative S/P ratio of 0.2, derived from the analog, was applied to production from wells immediately offsetting the Poker Lake Unit #188Y and the Poker Lake Unit #227. A lag time of 2 years to first response was also assumed in order to account for the advanced depletion offsetting the PLU #188Y relative to the stage of depletion when the Charger 29 Federal #1 was converted to injection. Historical and projected oil production offsetting each proposed injection well is presented in attachments 10 and 11 for the Poker Lake Unit #188Y and attachments 13 and 14 for the Poker Lake Unit #227. Total secondary recovery expected from the conversions is estimated at 30 MBO. Assuming an oil price of \$30/bbl net of expenses and royalty, secondary reserves are valued at \$900,000. Remaining oil reserves from the two proposed conversions is estimated to be less than 5 MBO total.


Kent A. Adams
Division Engineer
BEPCO, L.P.

*Sent in support of Beppo's application for
SWD 1065 in NW/4/Sec 5/24S/30E*

PowerTools Map

Project: d:\powertools v8.0\pluwf.mdb



Rate/Time Graph

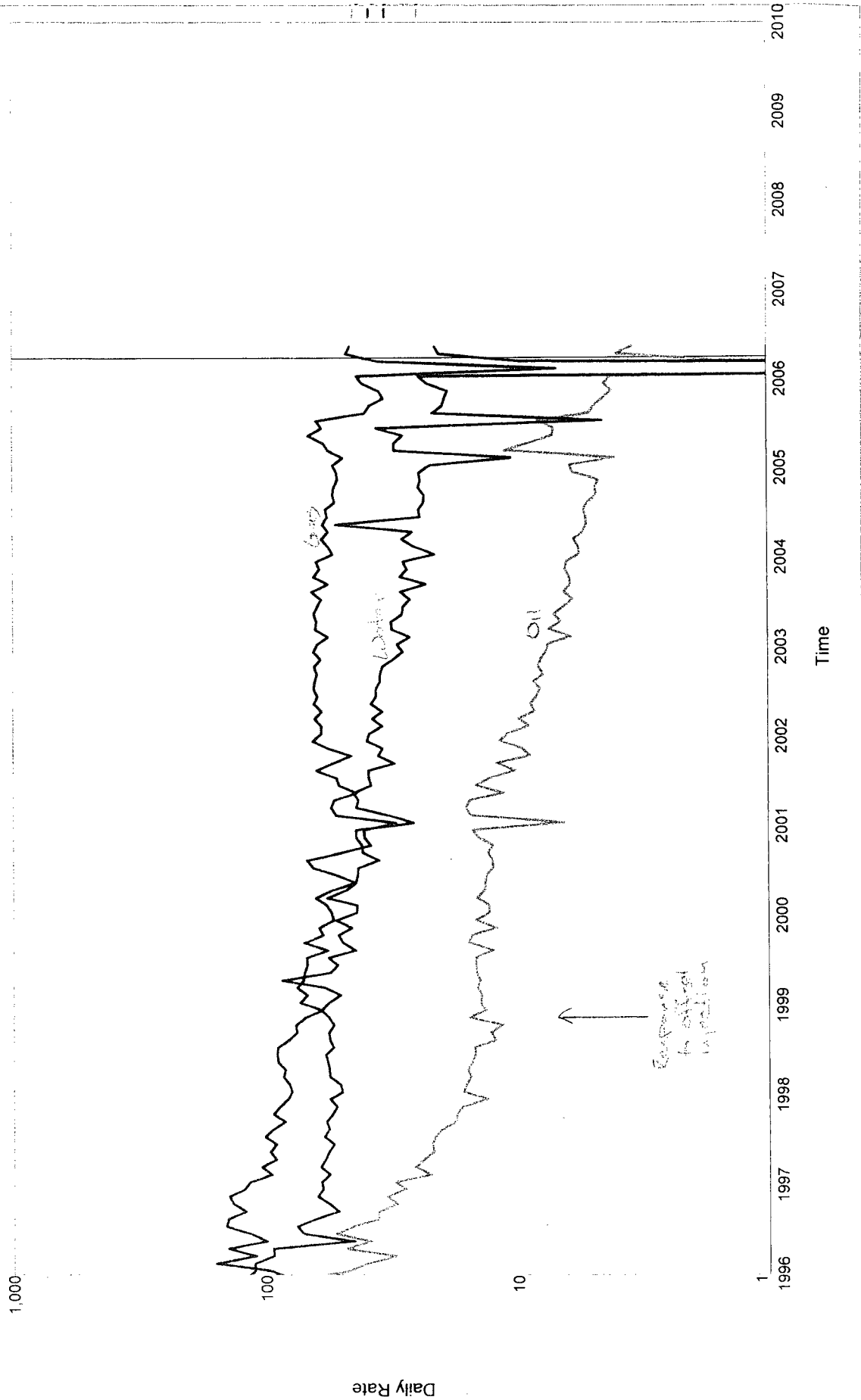
Project: d:\powertools v8.0\pluwf.mdb

Date: 11/17/2006
Time: 3:35 PM

Lease Name: GOLD RUSH 30 FEDERAL (3)
County, ST: EDDY, NM
Location: 30H 23S 30E

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #3



Rate/Time Graph

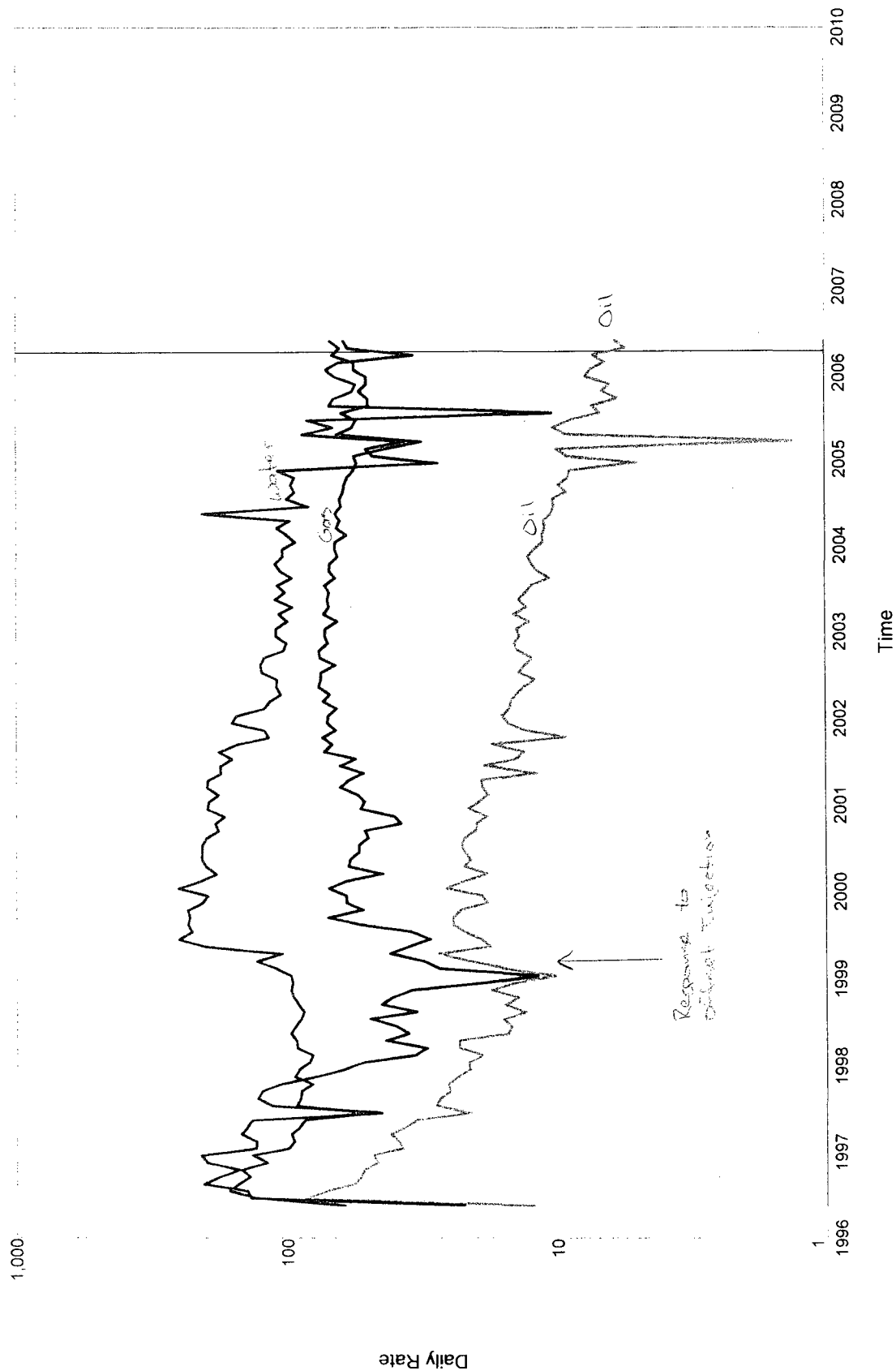
Project: d:\powertools v8.0\pluwf.mdb

Date: 11/17/2006
Time: 3:33 PM

Lease Name: GOLD RUSH 30 FEDERAL (4)
County, ST: EDDY, NM
Location: 30I 23S 30E

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #4



Rate/Time Graph

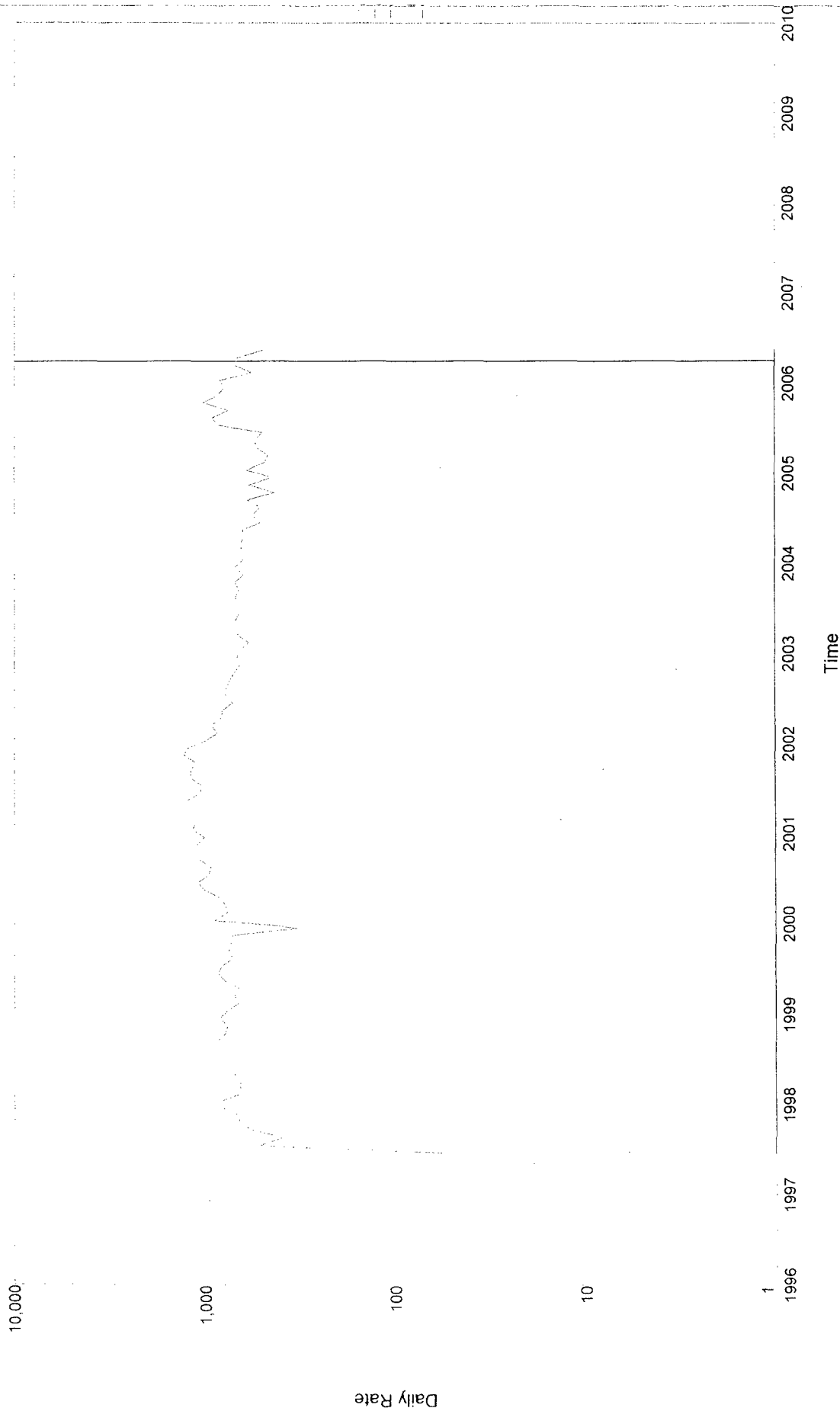
Project: d:\powerertools v8.0\pluwf.mdb

Date: 11/17/2006
Time: 3:35 PM

Lease Name: CHARGER 29 FEDERAL (1)
County, ST: EDDY, NM
Location: 29E 23S 30E

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: SWD

CHARGER 29 FEDERAL - SWD



Rate/Cum Graph

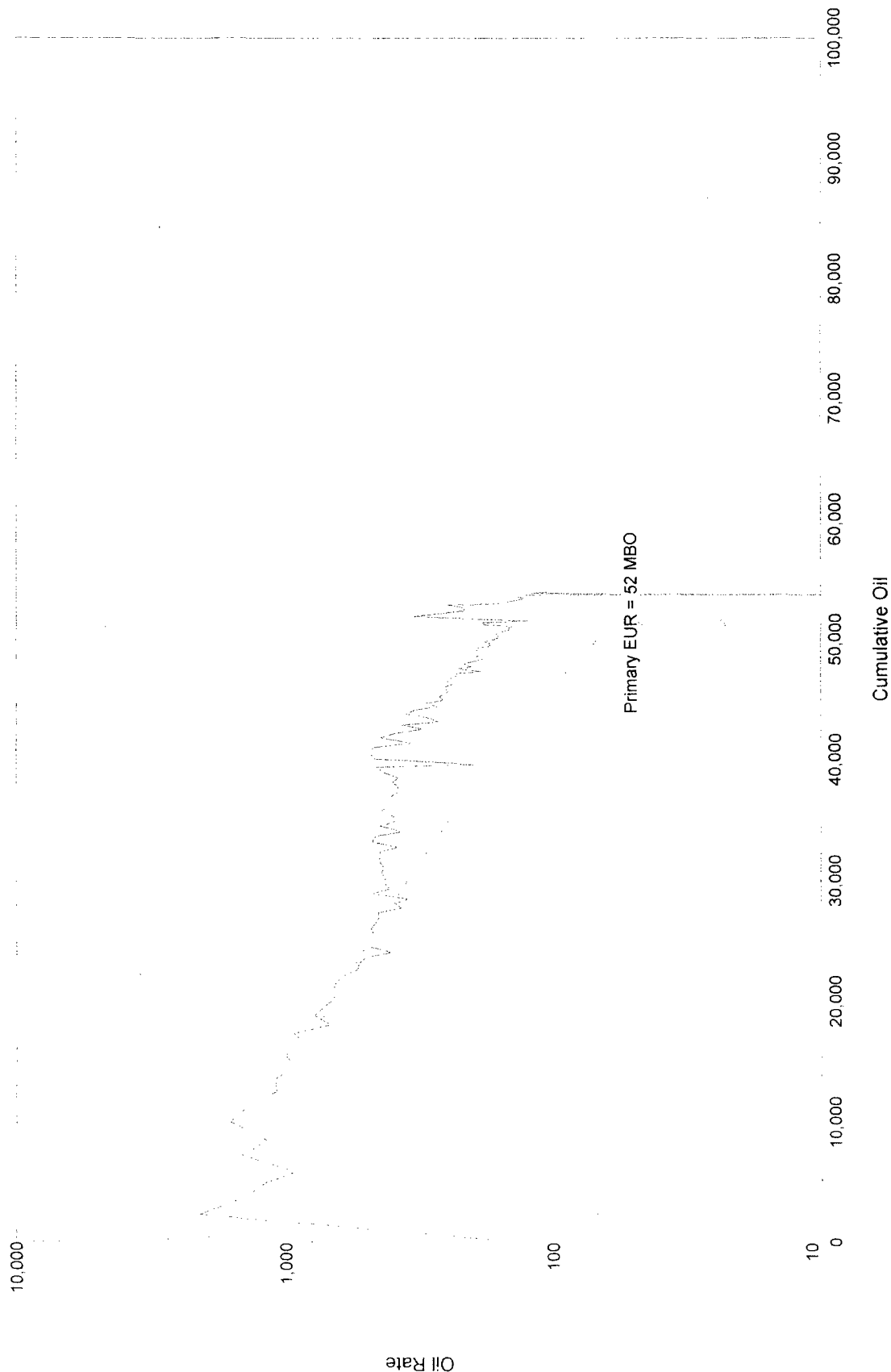
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Date: 11/17/2006
Time: 3:21 PM

Lease Name: GOLD RUSH 30 FEDERAL (3)
County, ST: EDDY, NM
Location: 30H 23S 30E

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #3



Rate/Cum Graph

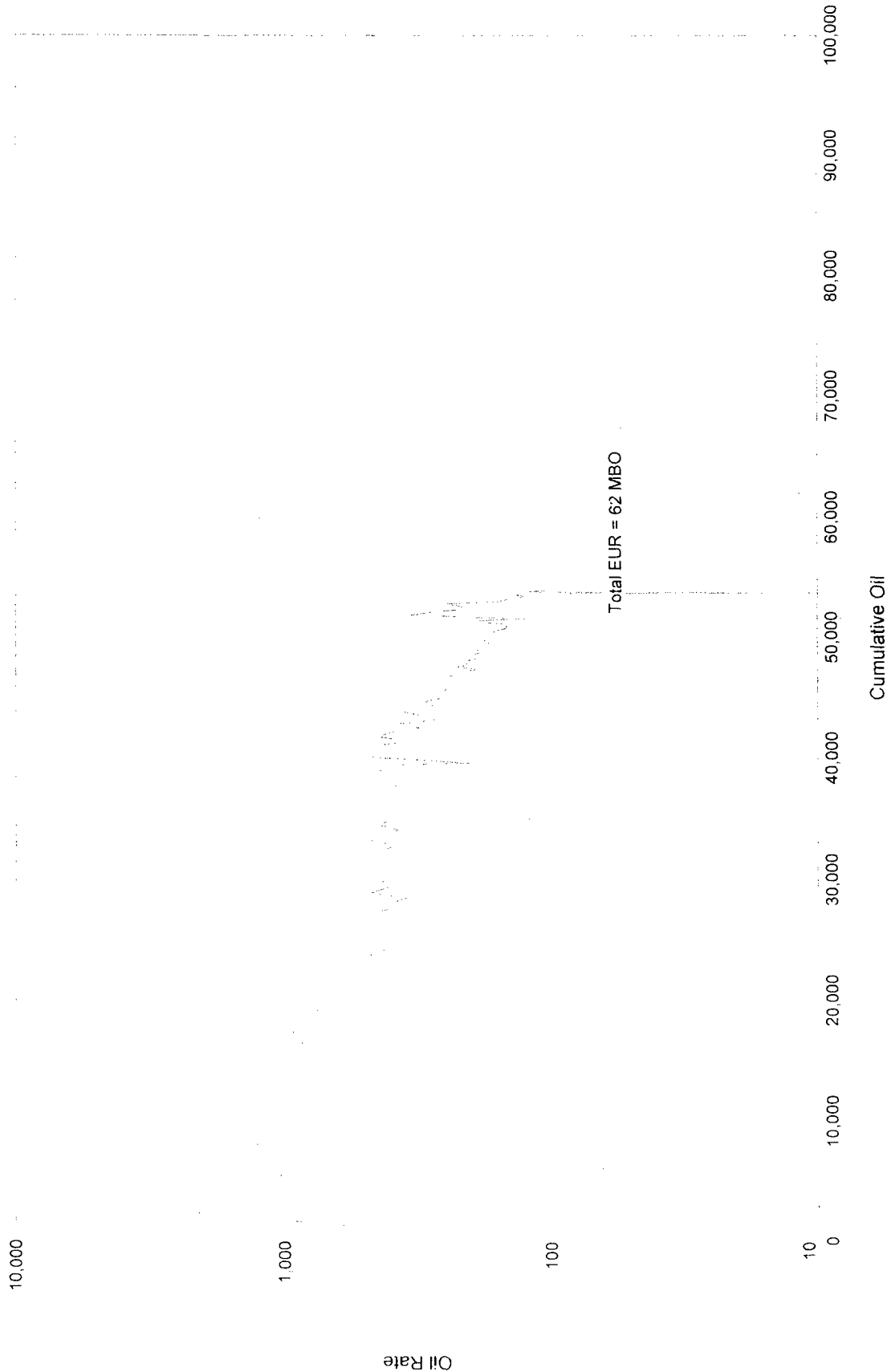
Lease Name: GOLD RUSH 30 FEDERAL (3)
County, ST: EDDY, NM
Location: 30H 23S 30E

Project: d:\powertools v8.0\pluwf.mdb

Date: 11/17/2006
Time: 3:20 PM

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #3



Rate/Cum Graph

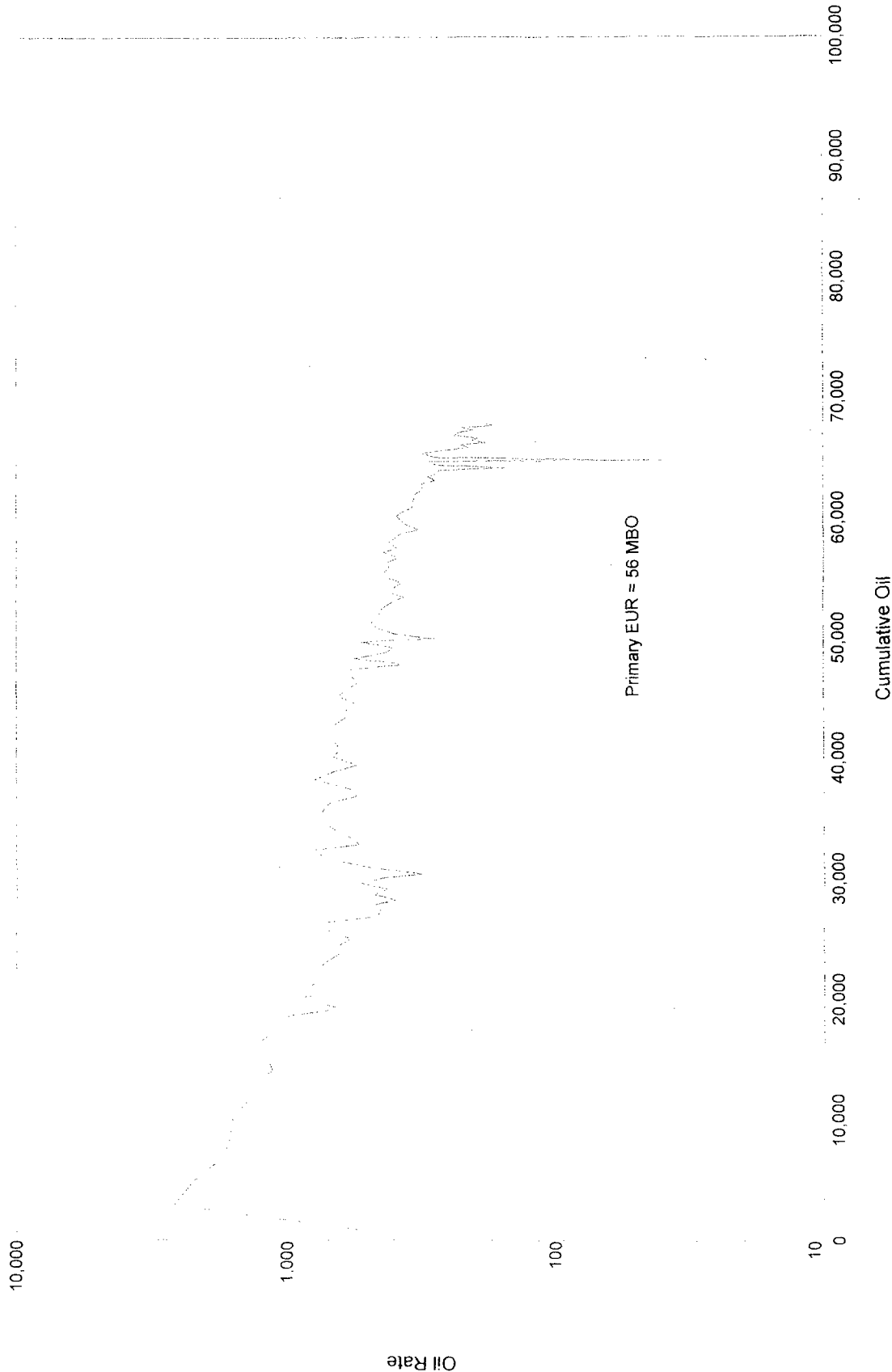
Lease Name: GOLD RUSH 30 FEDERAL (4)
County, ST: EDDY, NM
Location: 30I 23S 30E

Project: d:\powertools v8.0\pluwf.mdb

Date: 11/17/2006
Time: 3:26 PM

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #4



Rate/Cum Graph

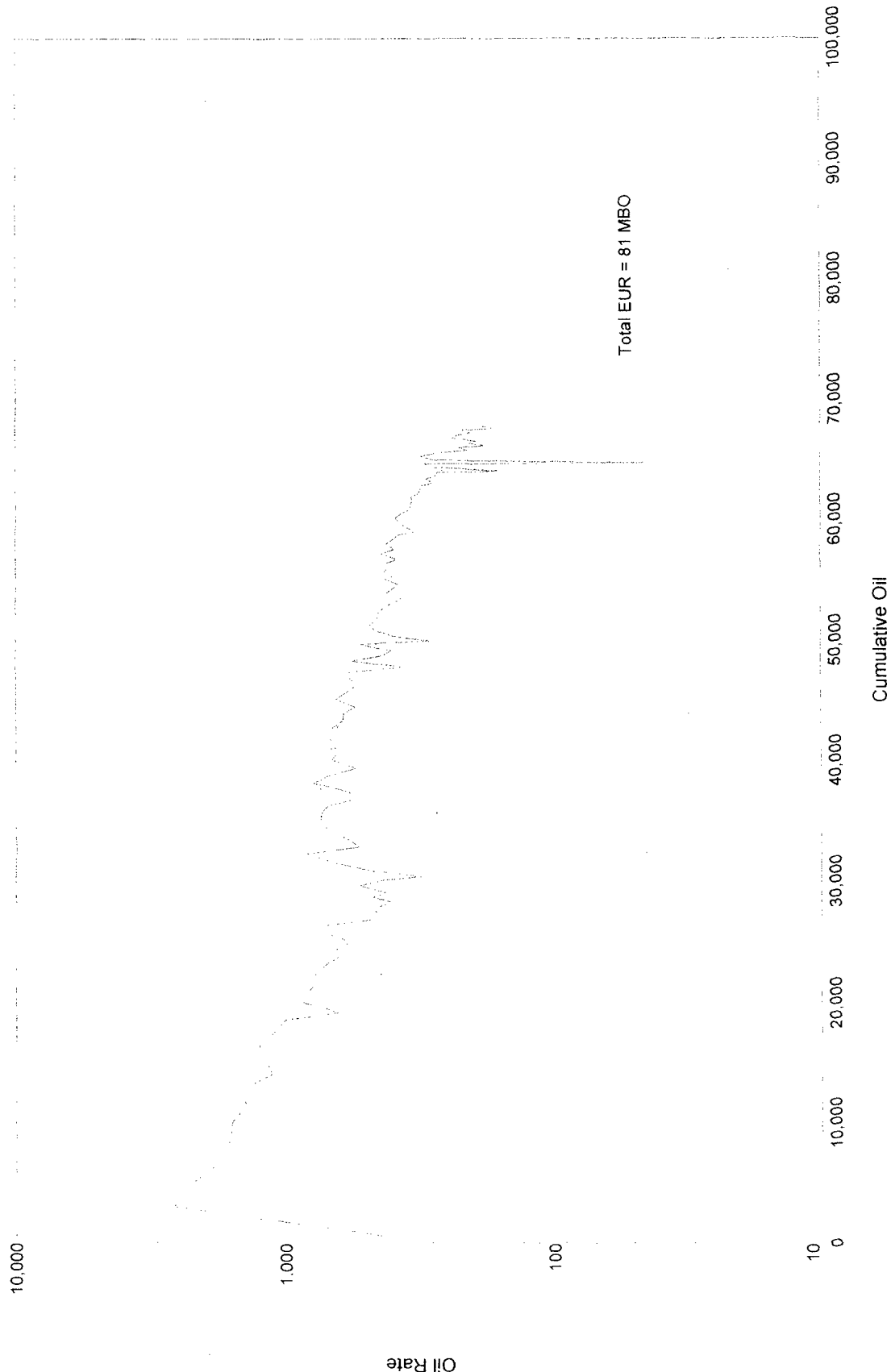
Lease Name: GOLD RUSH 30 FEDERAL (4)
County, ST: EDDY, NM
Location: 301 23S 30E

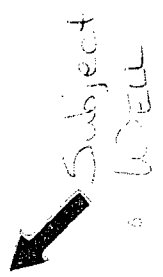
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Date: 11/17/2006
Time: 3:29 PM

Operator: COG OPERATING LIMITED LIABILITY CORP
Field Name: NASH DRAW

Gold Rush 30 Federal #4





Rate/Time Graph

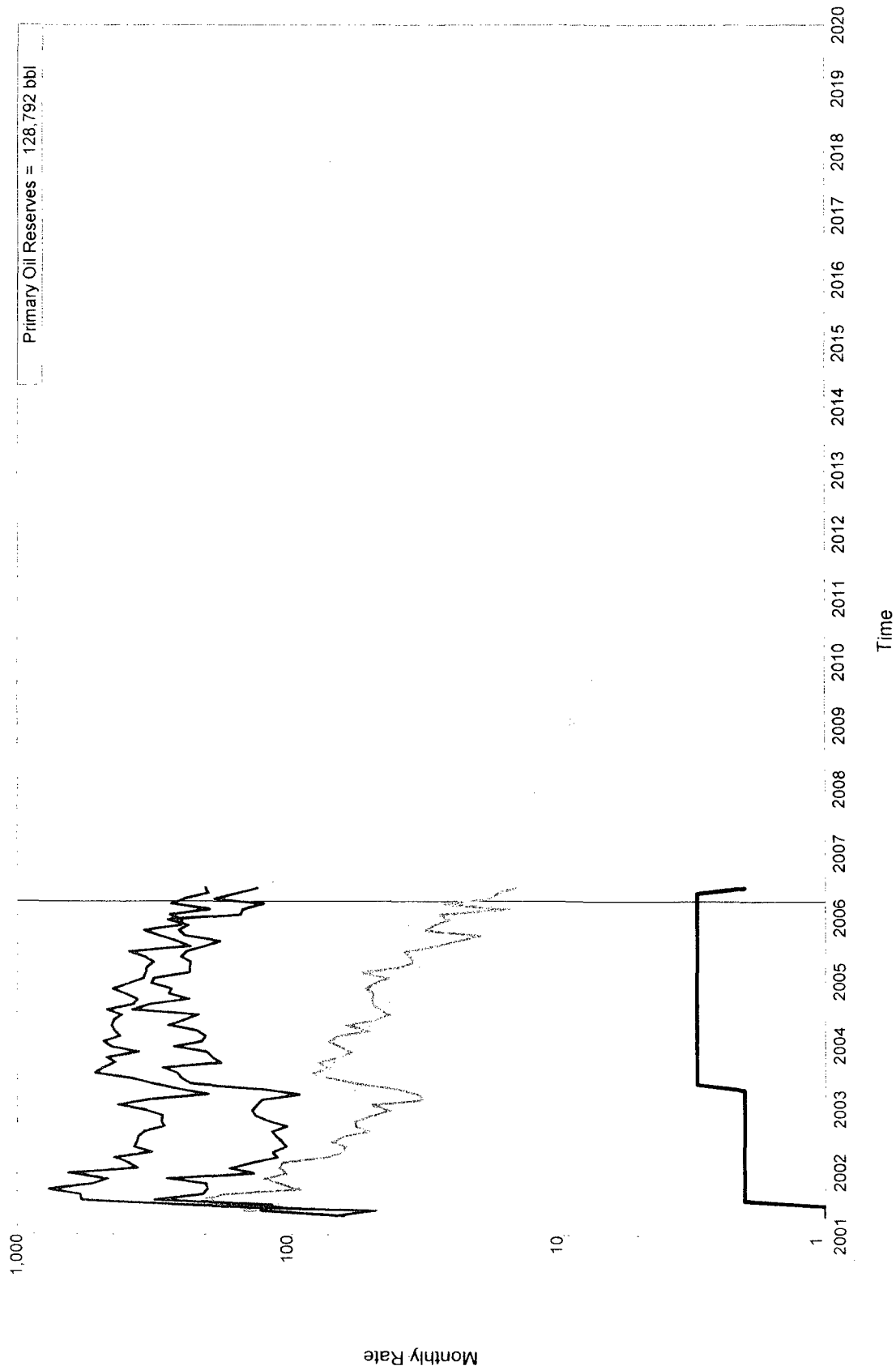
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Date: 11/20/2006
Time: 2:04 PM

Lease Name: plu 188Y offsets ()
County, ST: ,
Location: 0-0-0

Operator:
Field Name:

Poker Lake Unit #188Y Offsets (#165, #166, #167)



Rate/Time Graph

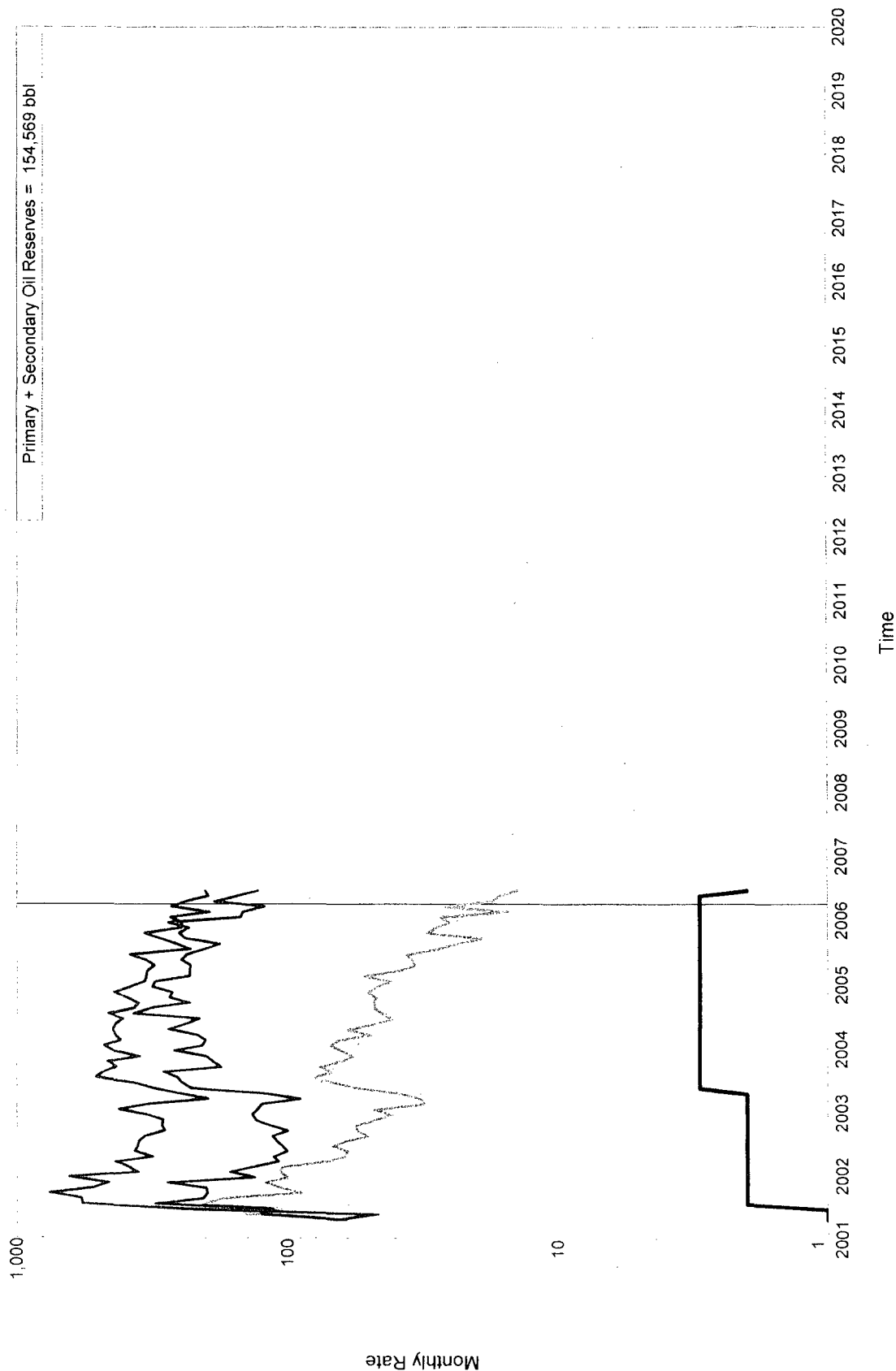
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Date: 11/20/2006
Time: 2:09 PM

Lease Name: plu 188Y offsets ()
County, ST: ,
Location: 0-0-0

Operator:
Field Name:

Poker Lake Unit #188Y Offsets (#165, #166, #167)



Project: d:\powertools v8.0\pluwf.mdb

Date: 11/20/2006
Time: 1:40 PM

Subject

Rate/Time Graph

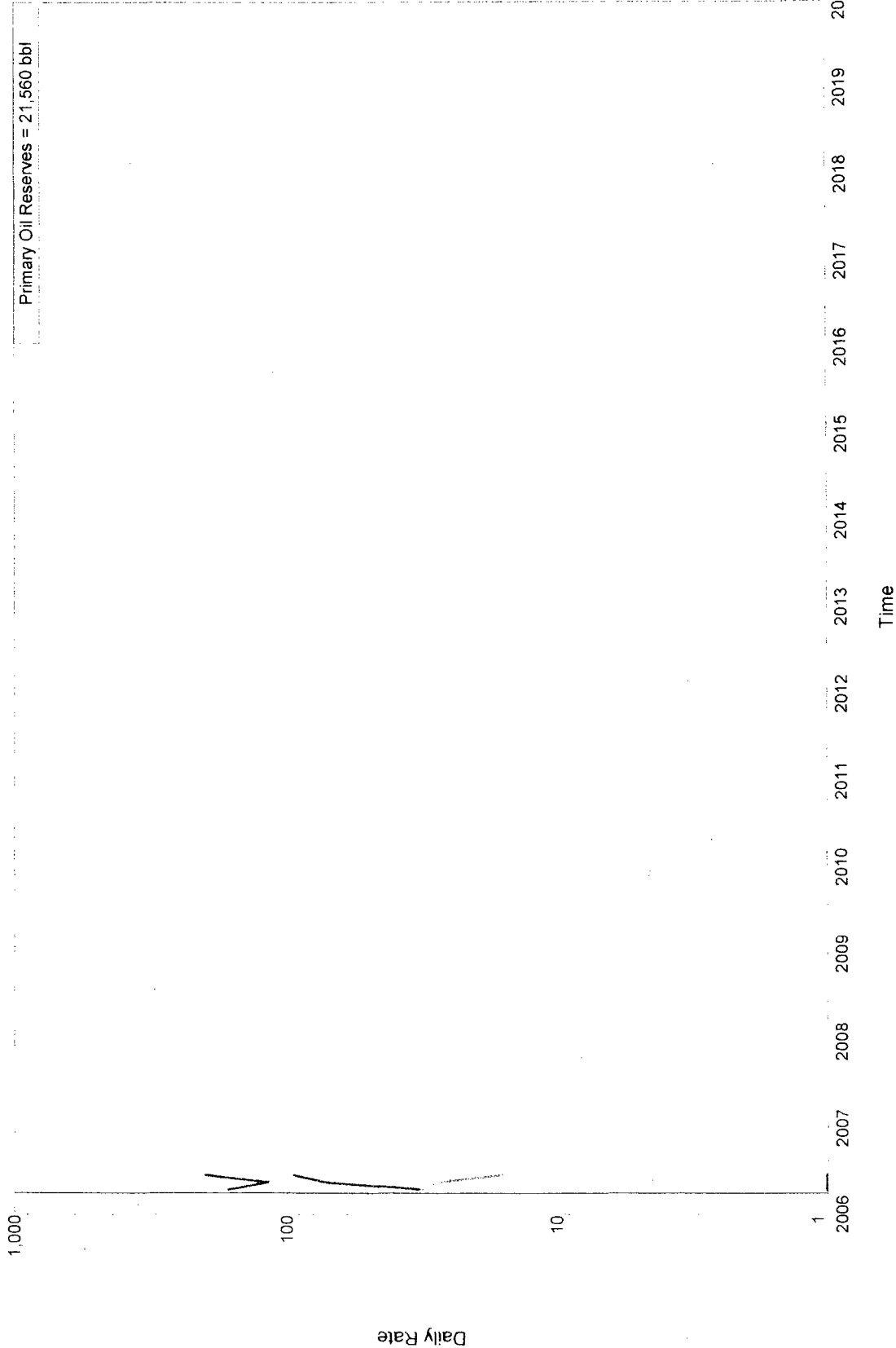
Project: d:\powertools v8.0\pluwf.mdb

Date: 11/20/2006
Time: 2:00 PM

Lease Name: POKER LAKE UNIT (241)
County, ST: EDDY, NM
Location: 30O 24S 30E NW SW SE

Operator: BASS ENTERPRISES PRODUCTION COMPANY
Field Name: NASH DRAW

Poker Lake Unit #227 Offsets (#241)



Rate/Time Graph

Project: d:\powertools v8.0\pluwf.mdb

Date: 11/20/2006
Time: 2:03 PM

Lease Name: POKER LAKE UNIT (241)
County, ST: EDDY, NM
Location: 300 24S 30E NW SW SE

Operator: BASS ENTERPRISES PRODUCTION COMPANY
Field Name: NASH DRAW

Poker Lake Unit #227 Offsets (#241)

