

3/31/03	SUSPENSE NA	ENGINEER WVS	LOGGED IN W	TYPE DHC	PKRVO309228641
---------	-------------	--------------	-------------	----------	----------------

ABOVE THIS LINE FOR DIVISION USE ONLY

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]

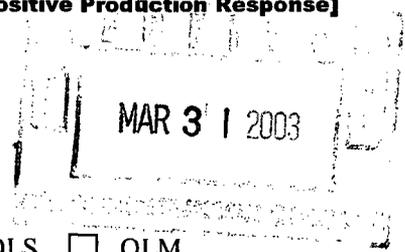
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD

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.

Tami Wilber
 Print or Type Name

Tami Wilber
 Signature

Production Clerk
 Title

3/28/03
 Date

 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

Form C-107A
Revised May 15, 2000

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

Bass Enterprises Production Co. P. O. Box 2760 Midland, TX 79702

Operator Poker Lake Unit #153 Address Section 6, UL G, T24S-R30E Eddy
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No. 001801 Property Code 001796 API No. 30-015-31412 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<u>WC Remuda Basin (Atoka) Gas</u>		<u>Dog Town Draw (Morrow) Gas</u>
Pool Code	<u>97262</u>		<u>76082</u>
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	<u>12,848-12,860</u>		<u>14,053-14,067</u>
Method of Production (Flowing or Artificial Lift)	<u>Flow</u>		<u>Flow</u>
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)			
Oil Gravity or Gas BTU (Degree API or Chan BTU)	<u>1097 BTU</u>		<u>997 BTU</u>
Producing, Shut-In or New Zone	<u>Producing</u>		<u>Shut-In</u>
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: <u>3/23/03</u> Rates: <u>30/4671/13</u>	Date: Rates:	Date: <u>Jan 2003</u> Rates: <u>0/1213/0</u>
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil <u>100%</u> Gas <u>19%</u> Allocation Attached	Oil % Gas %	Oil <u>0%</u> Gas <u>81%</u> Allocation Attached <u>wvss</u>

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes 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 No

Will commingling decrease the value of production? Yes No

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 Tami Wilber TITLE Production Clerk DATE 3/26/03
TYPE OR PRINT NAME Tami Wilber TELEPHONE NO. (915) 683-2277

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-31412	Pool Code 76082	Pool Name Dog Town Draw (Morrow)
Property Code 001796	Property Name POKER LAKE UNIT	Well Number 153
OGRID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3260'

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	6	24 S	30 E		1830	NORTH	1980	EAST	EDDY

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320	N		

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

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Tami Wilber</i> Signature</p> <p>Tami Wilber Printed Name</p> <p>Production Clerk Title</p> <p>4/25/01 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat 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.</p> <p>June 19, 2000 Date Surveyed</p> <p>GARY L. JONES Signature & Seal of Professional Land Surveyor Professional Land Surveyor 7977</p> <p>7977 O. No. 0840</p> <p>Certification: Gary L. Jones 7977 BASIN SURVEYS</p>

DISTRICT I
1825 N. French Dr., Hobbs, NM 88249

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-31412	Pool Code 97262	Pool Name Remuda Basin (Atoka)
Property Code 001796	Property Name POKER LAKE UNIT	Well Number 153
OGRID No. 001801	Operator Name BASS ENTERPRISES PRODUCTION COMPANY	Elevation 3260'

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	6	24 S	30 E		1830	NORTH	1980	EAST	EDDY

Bottom Hole Location If Different From Surface

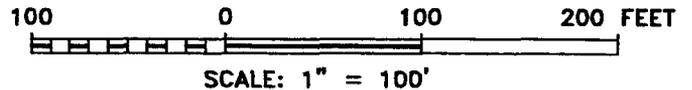
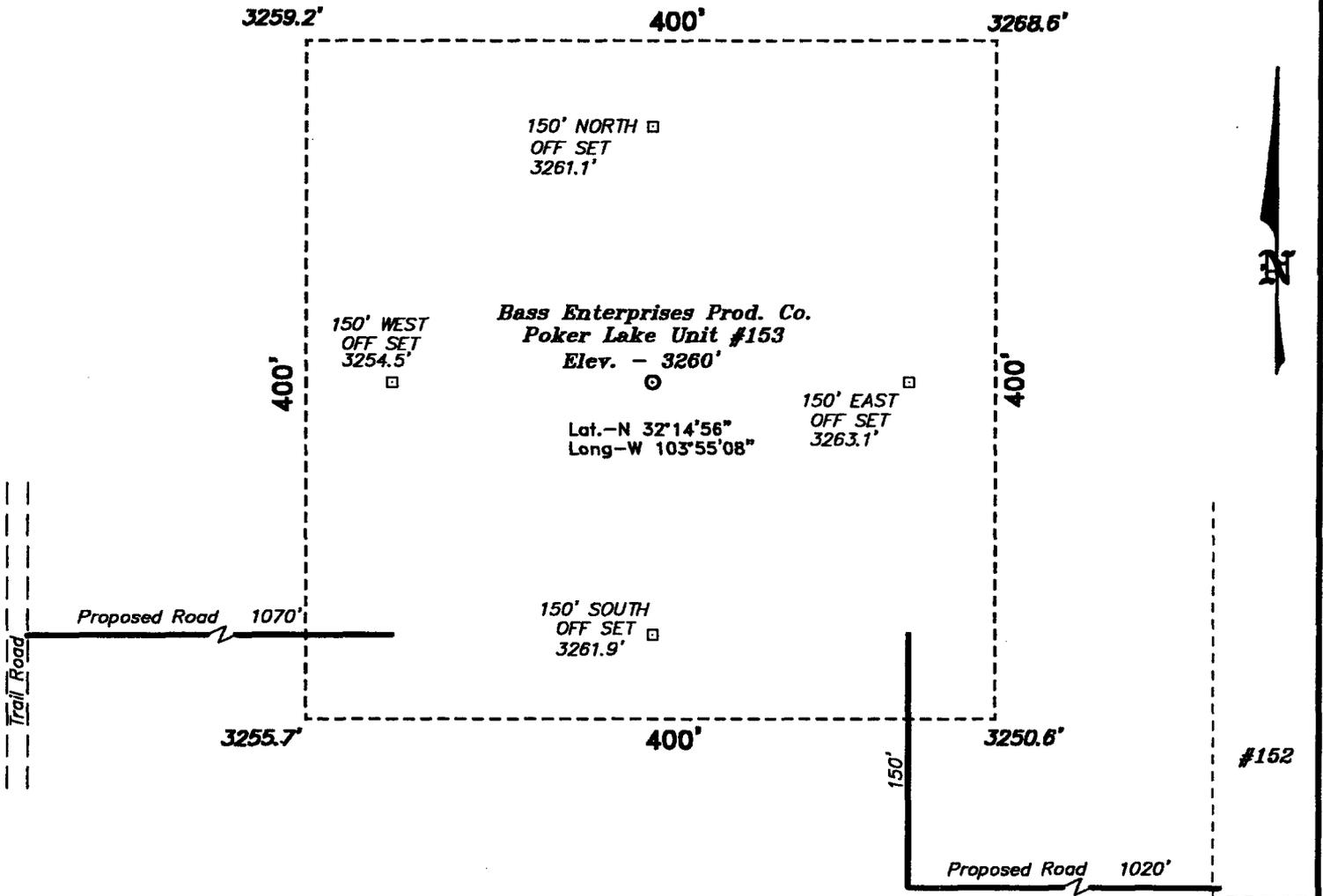
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320			

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

<p>LOT 1 - 40.72 AC.</p> <p>LOT 2 - 40.58 AC.</p>	<p>LAT - N32°14'56" LONG - W103°55'08"</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Tami Wilber</i> Signature</p> <p>Tami Wilber Printed Name</p> <p>Production Clerk Title</p> <p>3/20/03 Date</p>
<p>LOT 3 - 40.42 AC.</p> <p>LOT 4 - 40.28 AC.</p>		<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat 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.</p> <p>June 19, 2000 Date Surveyed</p> <p>L. JONES Signature & Seal of Professional Land Surveyor</p> <p>W.C. No. 0989</p> <p>Certificate No. 607 Jones 7977</p> <p>BASIN SURVEYS</p>

SECTION 6, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF STATE HWY 128 & CO. RD. 793, GO SOUTH AND WEST ON CO. RD. 793 APPROX. 4.0 MILES TO A LEASE ROAD; THENCE SOUTH ON LEASE ROAD APPROX. 3.5 MILES TO A PROPOSED LEASE ROAD WHICH LIES 1056 FEET WEST OF THE PROPOSED WELL LOCATION.

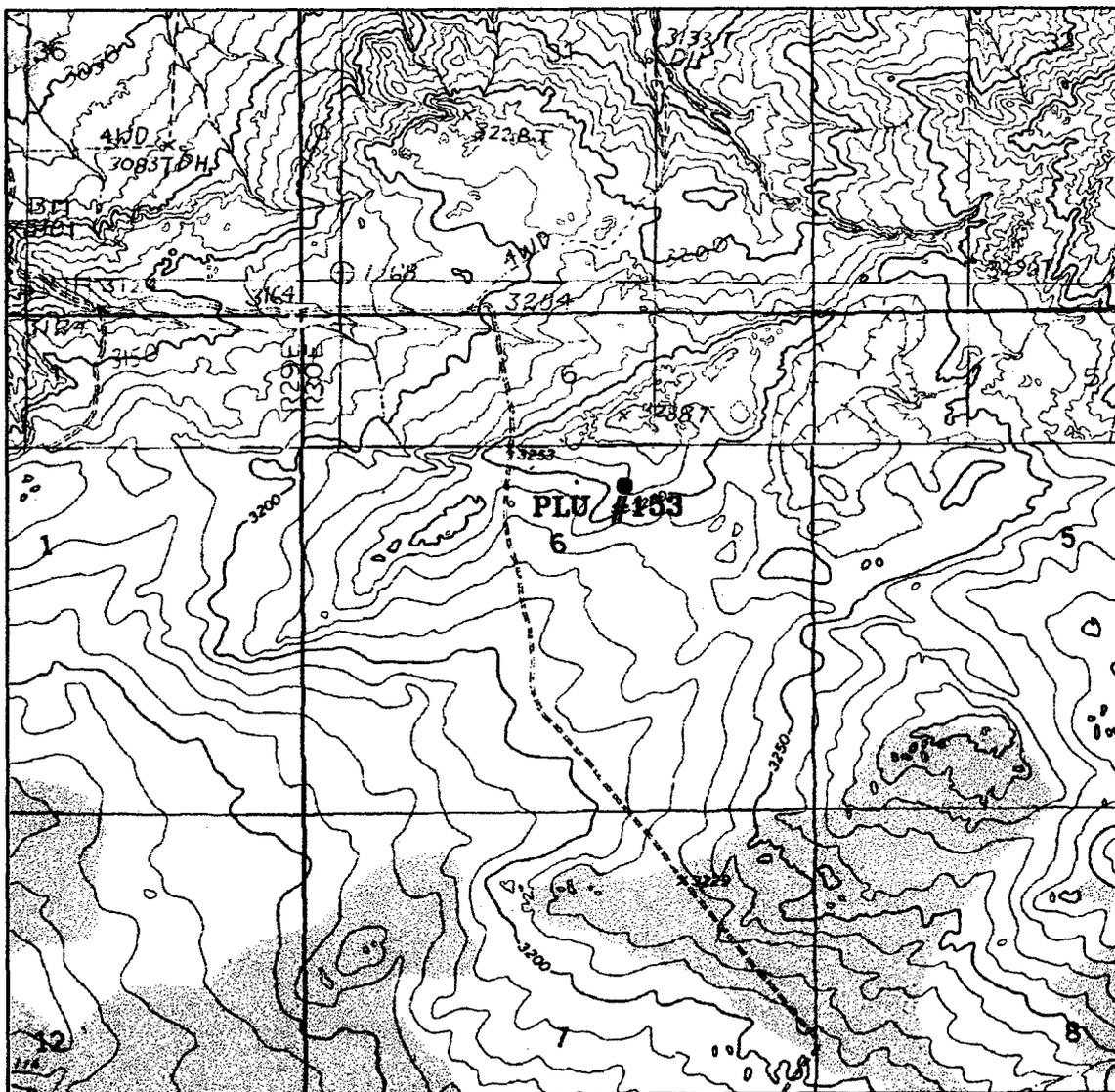
BASS ENTERPRISES PRODUCTION CO.	
REF: Poker Lake Unit No. 153 / Well Pad Topo	
THE POKER LAKE UNIT No. 153 LOCATED 1830' FROM THE NORTH LINE AND 1980' FROM THE EAST LINE OF SECTION 6, TOWNSHIP 24 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.	

BASIN SURVEYS P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 0340 Drawn By: **K. GOAD**

Date: 06-20-2000 Disk: KJG #122 - 0340D.DWG

Survey Date: 06-19-2000 Sheet 1 of 1 Sheets



POKER LAKE UNIT #153
 Located at 1830' FNL and 1980' FEL
 Section 6, Township 24 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

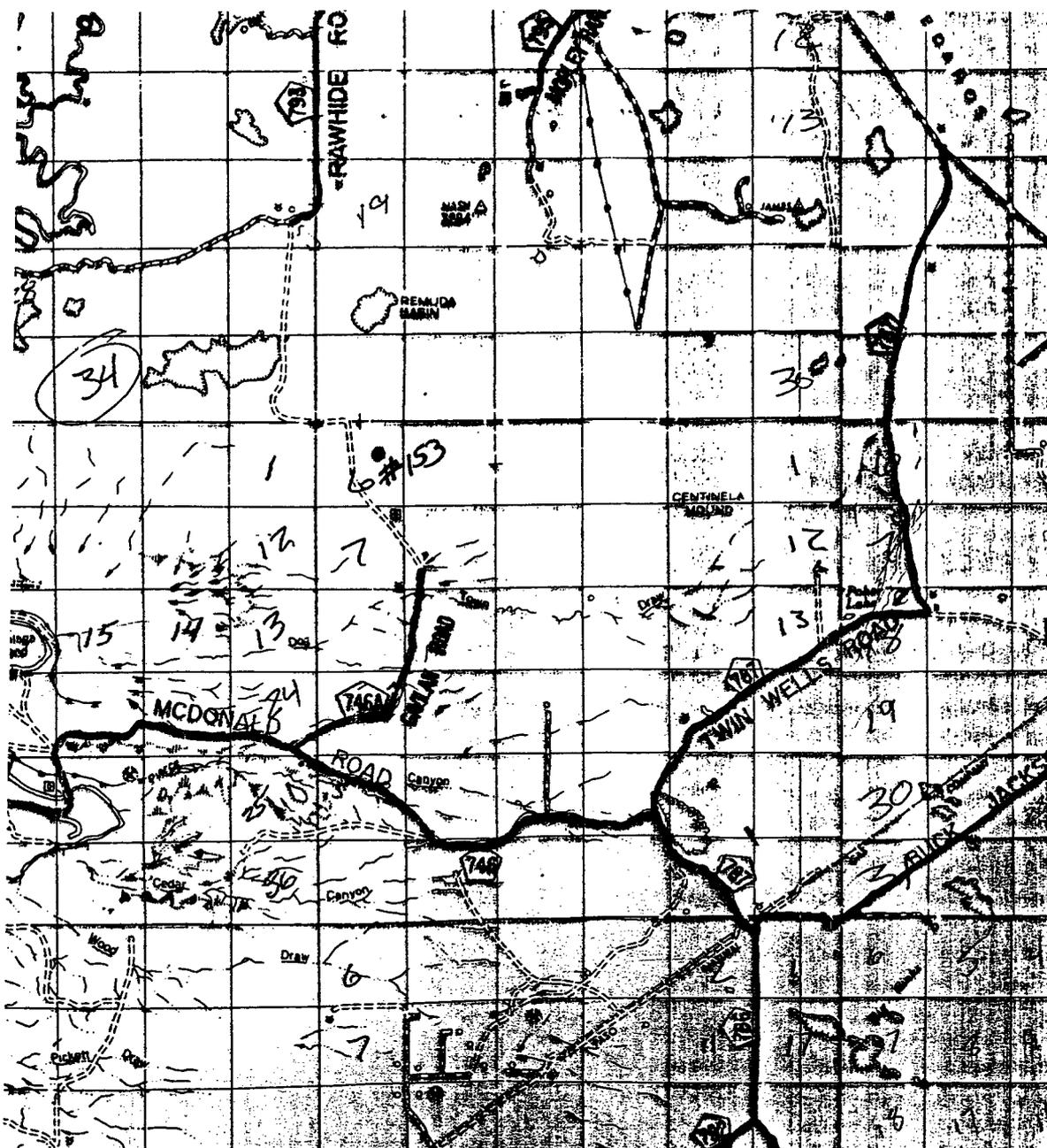
W.O. Number: 0340DD - KJG #122

Survey Date: 06-19-2000

Scale: 1" = 2000'

Date: 06-20-2000

**BASS ENTERPRISES
 PRODUCTION CO.**



POKER LAKE UNIT #153

Located at 1830' FNL and 1980' FEL
 Section 6, Township 24 South, Range 30 East,
 N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (505) 393-7316 - Office
 (505) 392-3074 - Fax
 basinsurveys.com

W.O. Number: 0340DD - KJG #122

Survey Date: 06-19-2000

Scale: 1" = 2 MILES

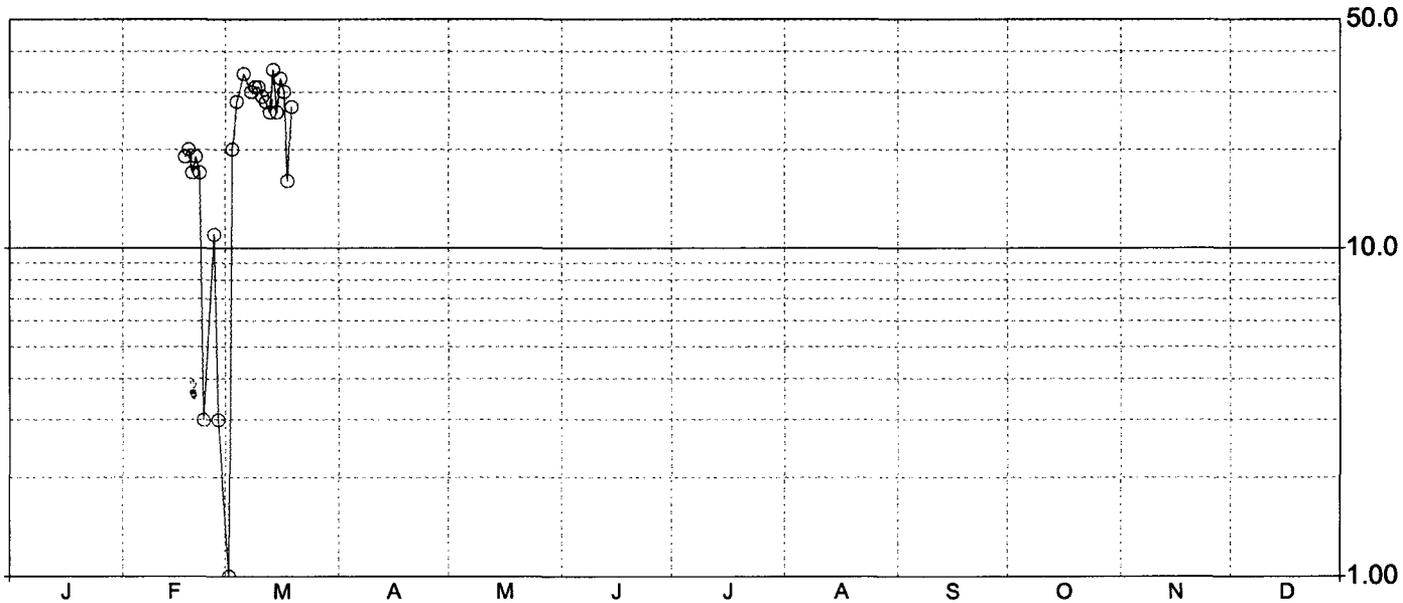
Date: 06-20-2000

**BASS ENTERPRISES
 PRODUCTION CO.**

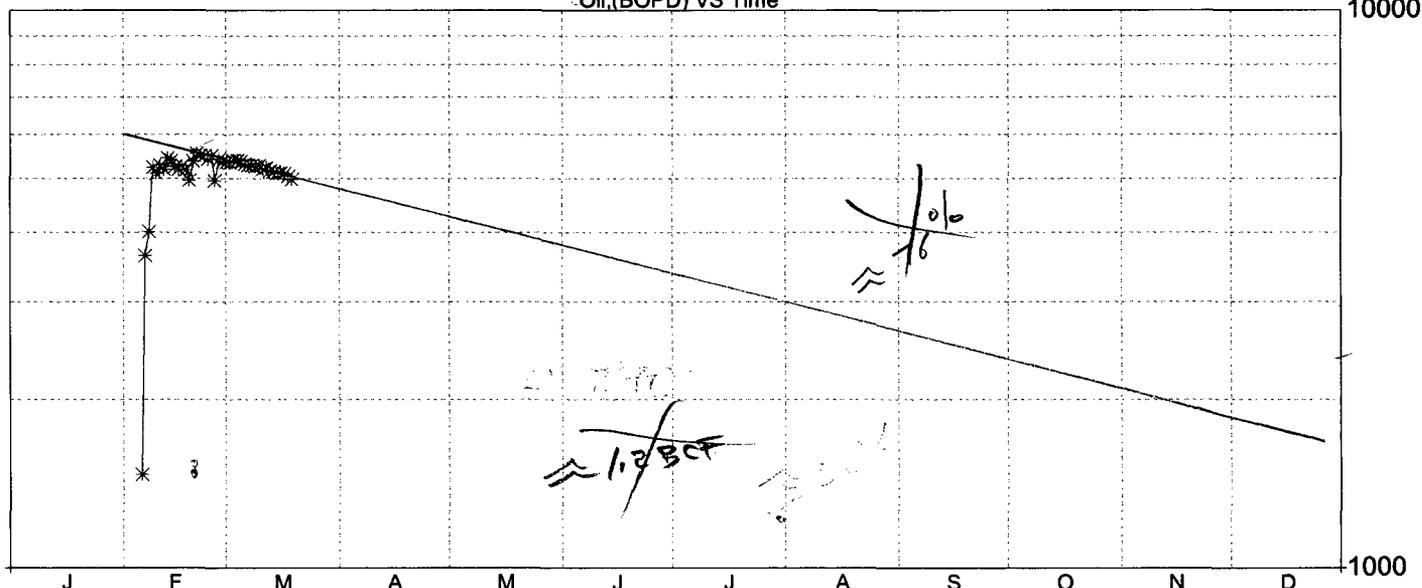
Well: POKER LAKE UNIT #153
Field: REMUDA BASIN (ATOKA)

Bass Enterprises Production Co.
County: EDDY
State: NM

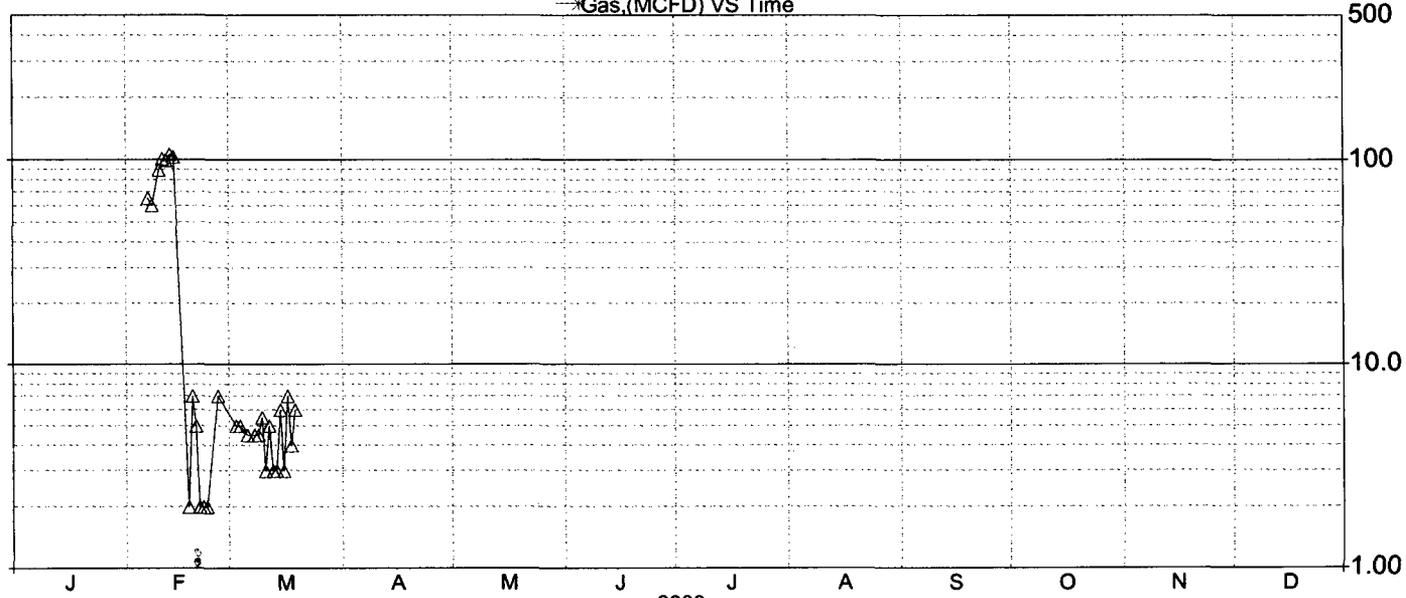
Cum Oil: 116
Cum Water: 92
Cum Gas: 121441



Oil (BOPD) VS Time



Gas (MCFD) VS Time

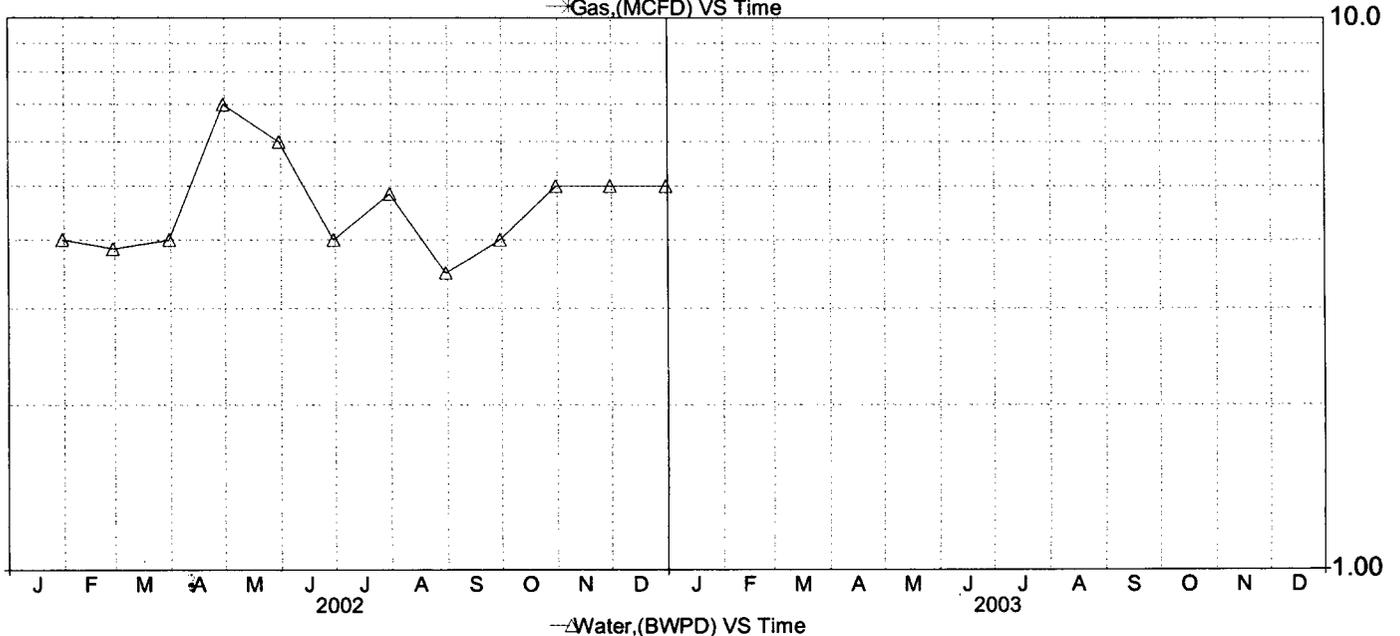
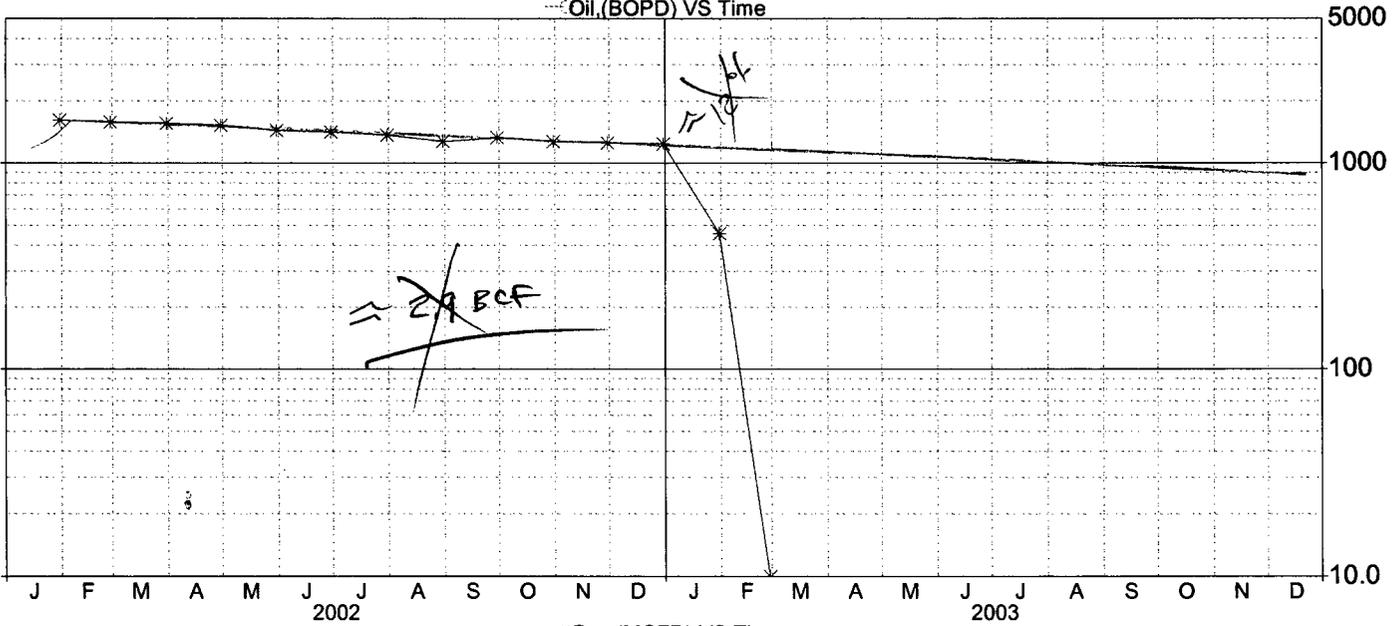
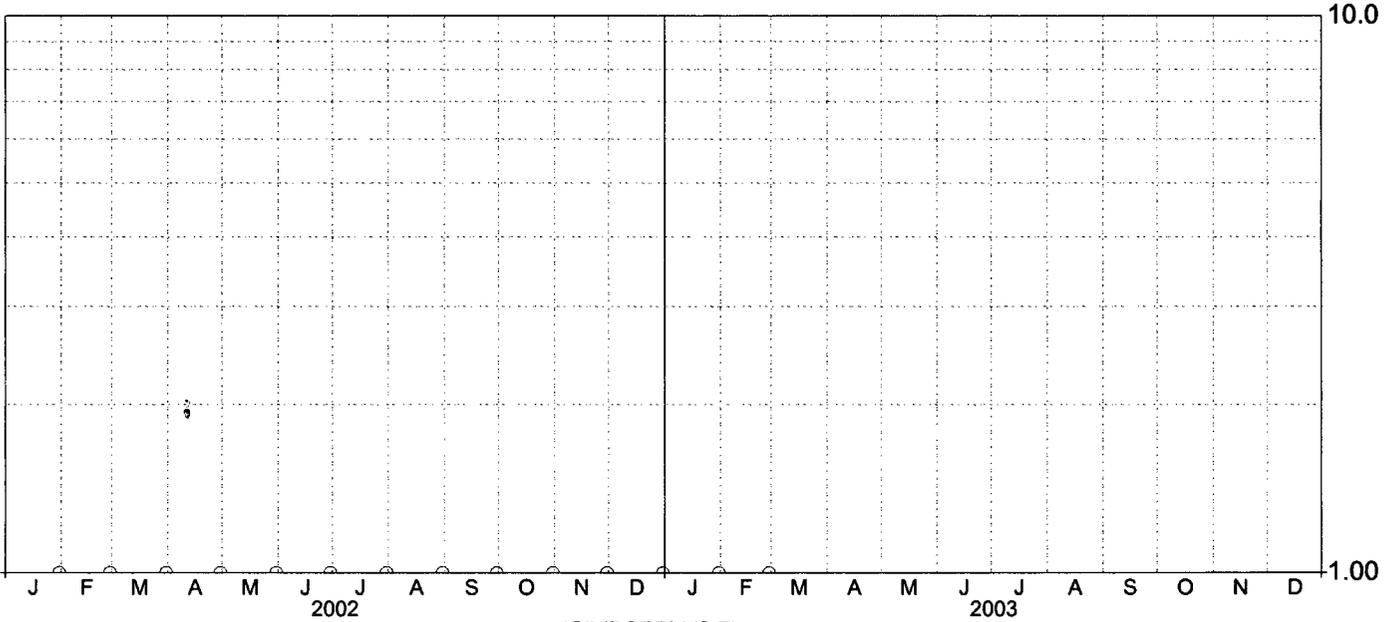


Water (BWPD) VS Time

Well: POKER LAKE UNIT #153
 Field: DOG TOWN DRAW (MORROW)

Bass Enterprises Production Co.
 County: EDDY
 State: NM

Cum Oil: 0
 Cum Water: 3109
 Cum Gas: 993728



Water (BWPD) VS Time

Poker Lake Unit # 153
 Unit G, Sec 6, T24S, R30E
 Eddy County, NM

Application for Downhole Commingling

Proposed Allocation of Gas Production			
Total Cumulative Gas Production	Percent Gas Morrow	Percent Gas Atoka	
1019201	100.0000	0.0000	
1024379	0.0000	100.0000	
1325670	40.1881	59.8119	
1483589	45.4161	54.5839	
1548486	51.7249	48.2751	
1581872	55.0538	44.9462	
1641286	61.9967	38.0033	
1668182	65.0687	34.9313	
1717787	70.4782	29.5218	
1763060	75.0165	24.9835	
1825013	80.4649	19.5351	
1899674	85.7458	14.2542	
1984125	90.2149	9.7851	
2133497	95.1895	4.8105	
2788849	100.0000	0.0000	

5178
 301291
 157919
 64897
 33386
 59414
 26896
 49605
 45273
 61953
 74661
 84451
 149372
 653352

1784470

5178
 180208
 86192
 31329
 15006
 22577
 9395
 14643
 11309
 12103
 10639
 8204
 7186
 0

~~Rem Morrow~~
~~2.9 BOE~~
~~From Decline~~
~~Foot~~

Total = 408,851
 ATOKA
 ↓
 19% of REMAINING
 after COMMINGLING

Poker Lake Unit #153

Explanation of proposed allocation

A computer simulation history match was generated for both the Morrow and Atoka completions of the PLU 153. Each zone has to date been produced independently and allowed for a high confidence level history match. This gave a reservoir description of each zone that was used to forecast the production against line pressure assuming the zones would be commingled on April 16, 2003. Since both zones are currently producing at line pressure the relative contribution is a function of depletion of each zone. Therefore a graph of fraction of contribution of each zone versus cumulative production from the wellbore was generated to provide an unambiguous means of allocation in the future.

Steve H. Neuse
March 27, 2003

Poker Lake Unit # 153
Unit G, Sec 6, T24S, R30E
Eddy County, NM

Application for Downhole Commingling

PLU 153 Commingle Contributions

