

DATE 3/31/03	SUSPENSE NA	ENGINEER WVS	LOGGED IN WV	TYPE DHC	FILE NO. PKRVO309228641
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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 Arriba 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

Form C-107A  
Revised May 15, 2000

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 Address  
Poker Lake Unit #153 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	WC Remuda Basin (Atoka) Gas		Dog Town Draw (Morrow) Gas
Pool Code	97262		76082
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	12,848-12,860		14,053-14,067
Method of Production (Flowing or Artificial Lift)	Flow		Flow
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 Cal BTU)	1097 BTU		997 BTU
Producing, Shut-In or New Zone	Producing		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: 3/23/03 Rates: 30/4671/13	Date: Rates:	Date: Jan 2003 Rates: 0/1213/0
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil 100% Gas 19% Allocation Attached	Oil % Gas % Allocation Attached	Oil 0% Gas 81% Allocation Attached

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., Artesia, 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 320	Joint or Infill N	Consolidation Code	Order No.						

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

LOT 1 - 40.72 AC.		OPERATOR CERTIFICATION
LOT 2 - 40.58 AC.		<p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><u>Tami Wilber</u> Signature</p> <p>Tami Wilber Printed Name</p> <p>Production Clerk Title</p> <p>4/25/01 Date</p>
LOT 3 - 40.42 AC.		SURVEYOR CERTIFICATION
LOT 4 - 40.28 AC.		<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><u>GARY L. JONES</u> Signature &amp; Seal of Professional Surveyor</p> <p>7977 Professional Surveyor No.</p> <p>7977 Certificate No.</p> <p>BASIN SURVEYS</p>

DISTRICT I  
1825 N. French Dr., Hobbs, NM 88240

DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, 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'

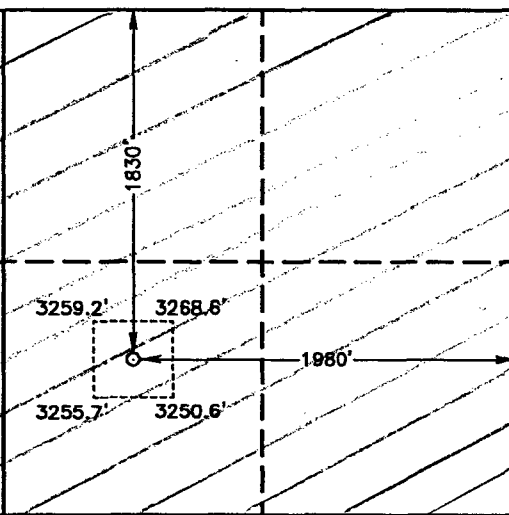
Surface Location

UL or lot No. G	Section 6	Township 24 S	Range 30 E	Lot Idn	Feet from the 1830	North/South line NORTH	Feet from the 1980	East/West line EAST	County EDDY
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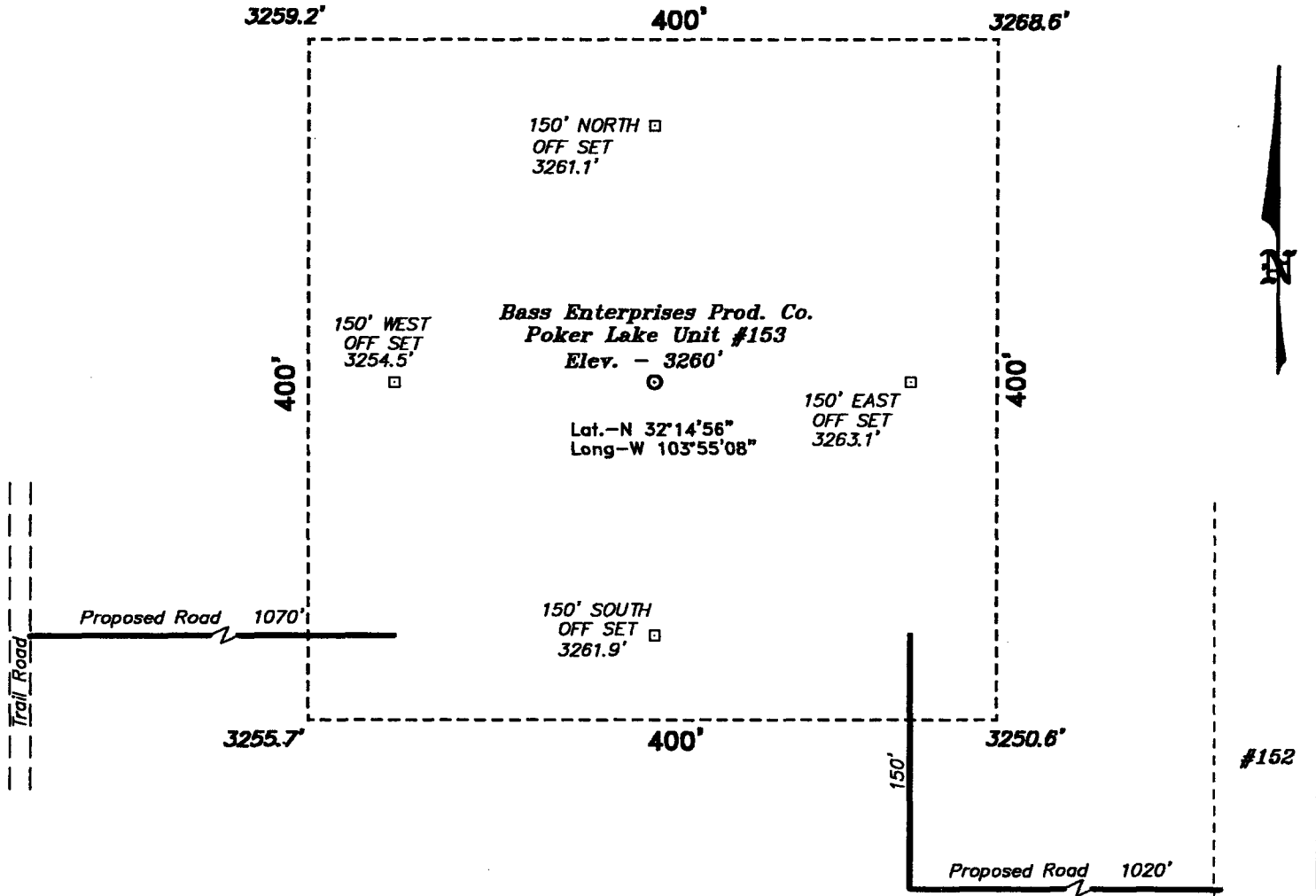
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.						

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

LOT 1 - 40.72 AC.		OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.  <i>Tami Wilber</i> Signature Tami Wilber Printed Name Production Clerk Title 3/20/03 Date
LOT 2 - 40.58 AC.		
LOT 3 - 40.42 AC.	LAT - N32°14'56" LONG - W103°55'08"	SURVEYOR CERTIFICATION  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.  June 19, 2000 Date Surveyed GARY L. JONES Signature Professional Surveyor W.C. No. 08490 Certificate No. 607 Jones 7977 BASIN SURVEYS
LOT 4 - 40.28 AC.		

SECTION 6, TOWN: 1P 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.



SCALE: 1" = 100'

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

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

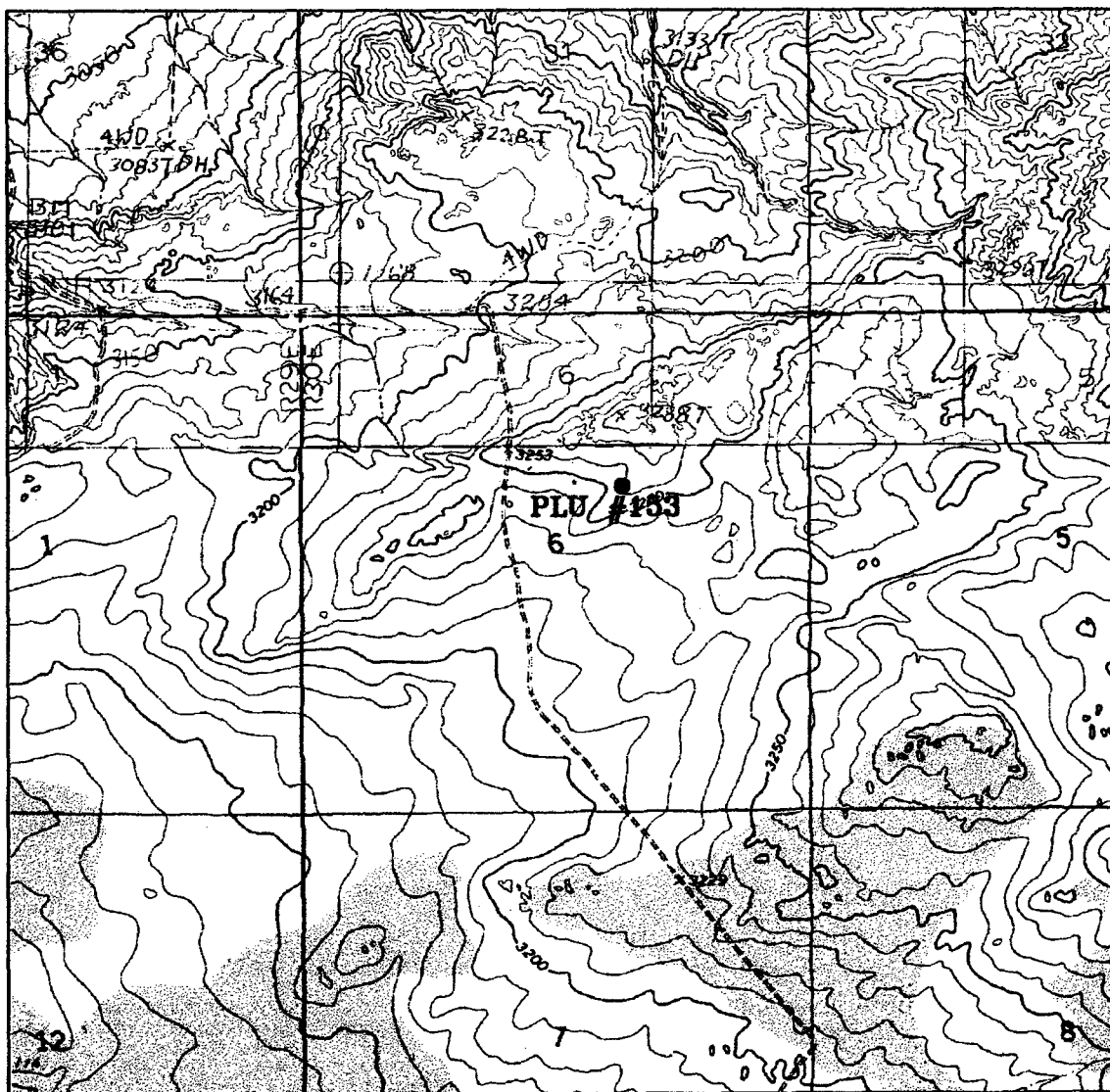
Date: 06-20-2000 Disk: KJG #122 - 0340D.DWG

**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.

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

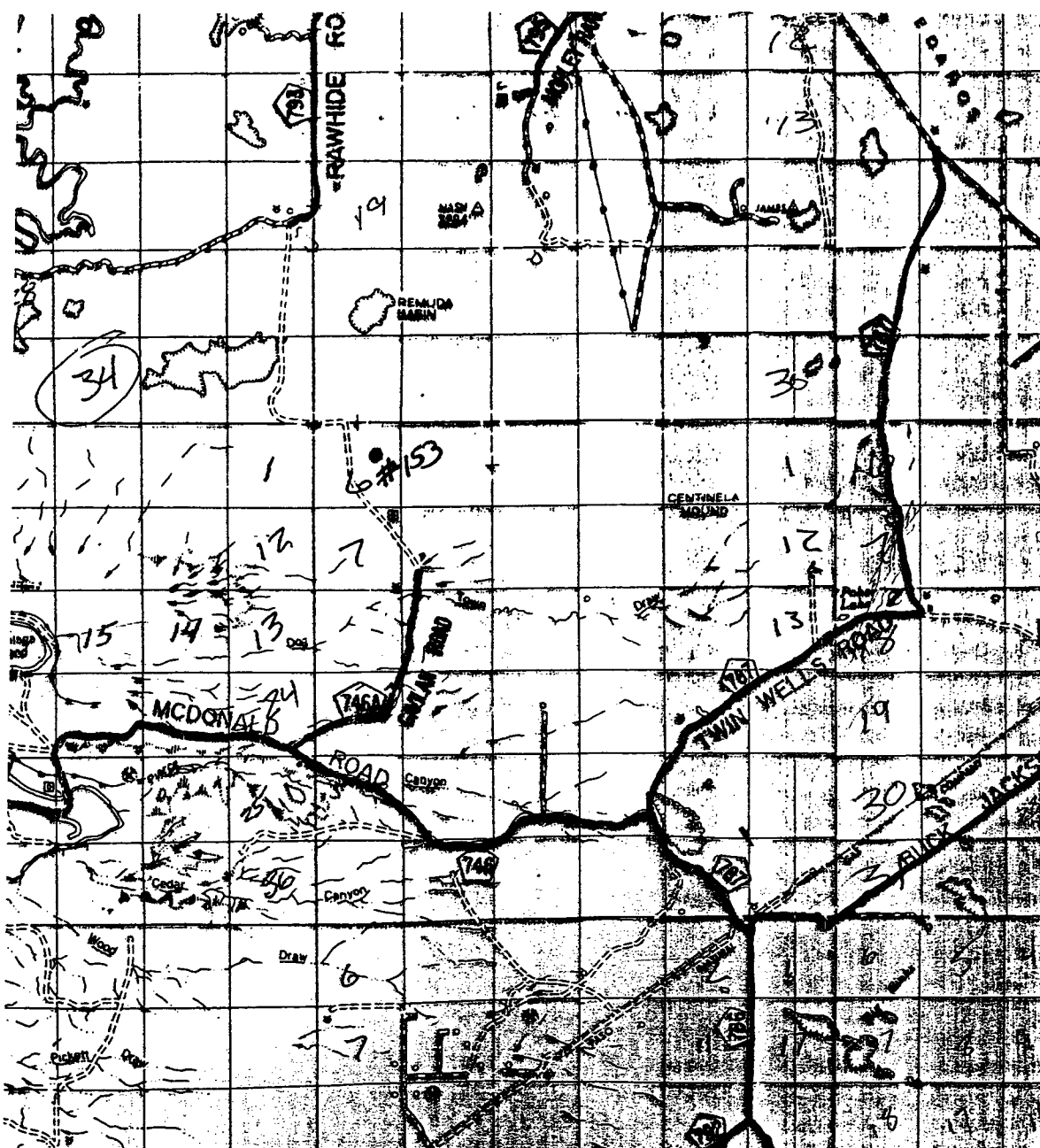
W.O. Number: 0340DD - KJG #122

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.

**basin**  
**surveys**

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 (505) 392-3074 - Fax  
 basinsurveys.com

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

Survey Date: 06-19-2000

Scale: 1" = 2 MILES

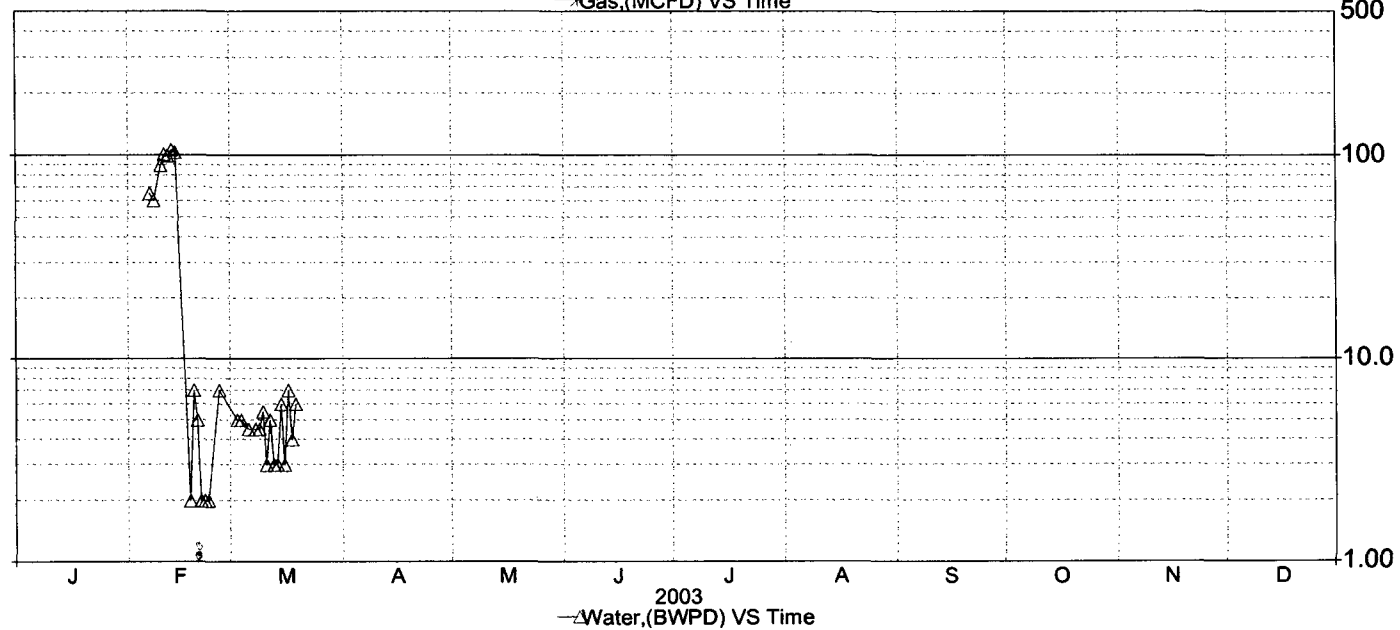
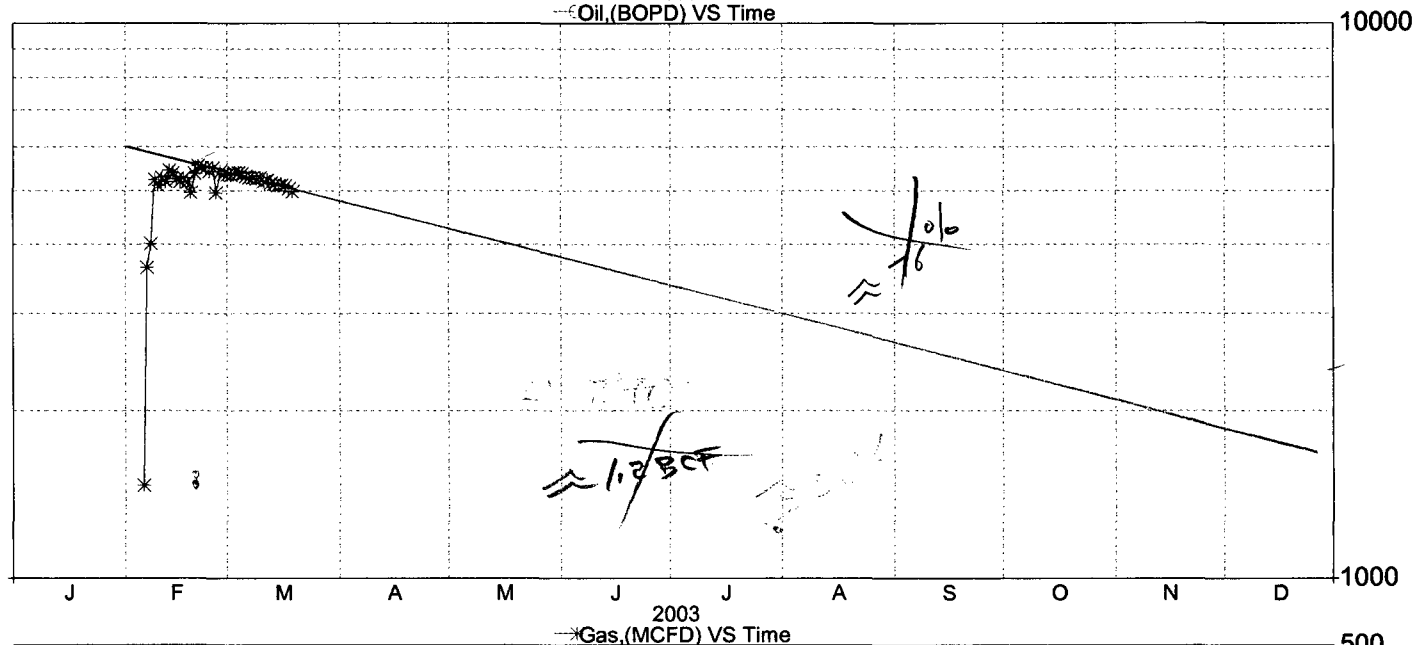
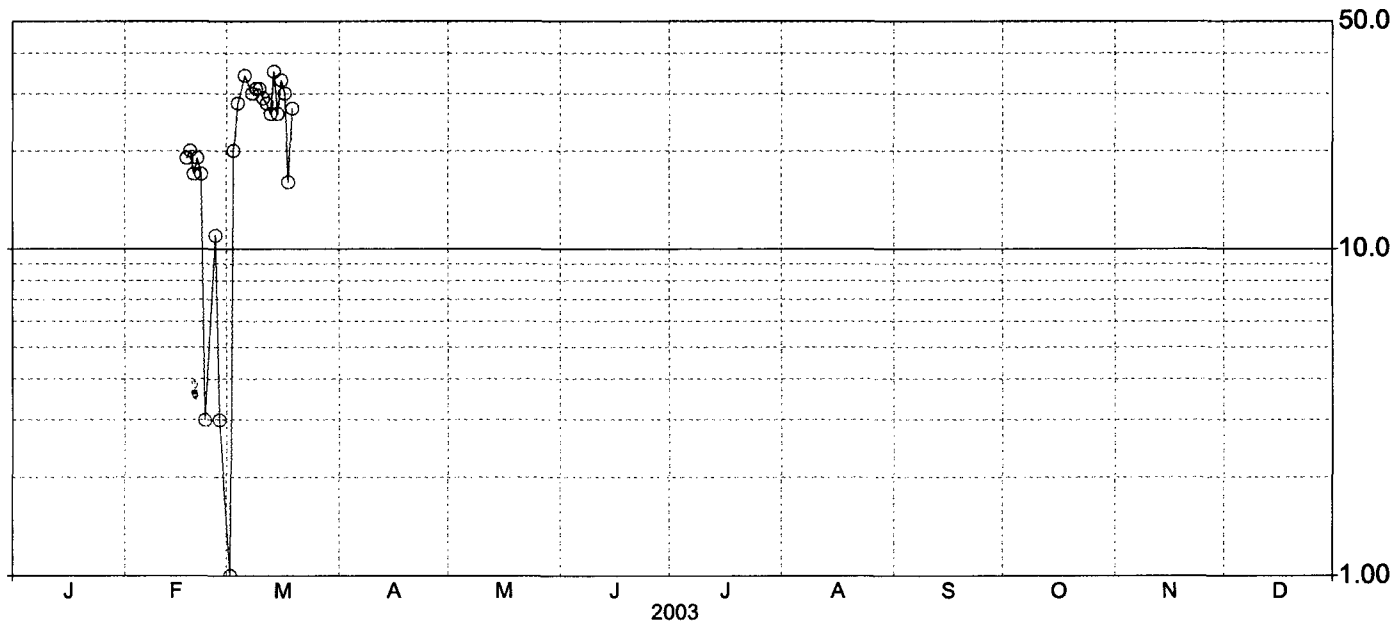
Date: 06-20-2000

**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

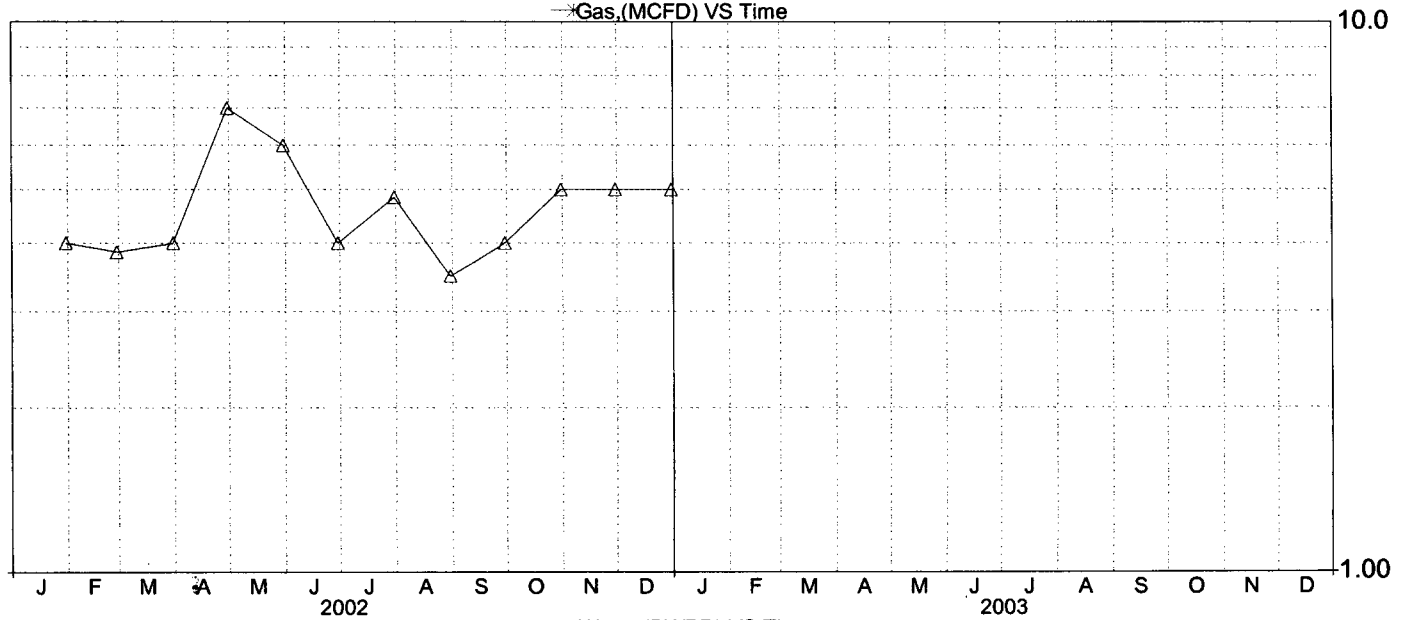
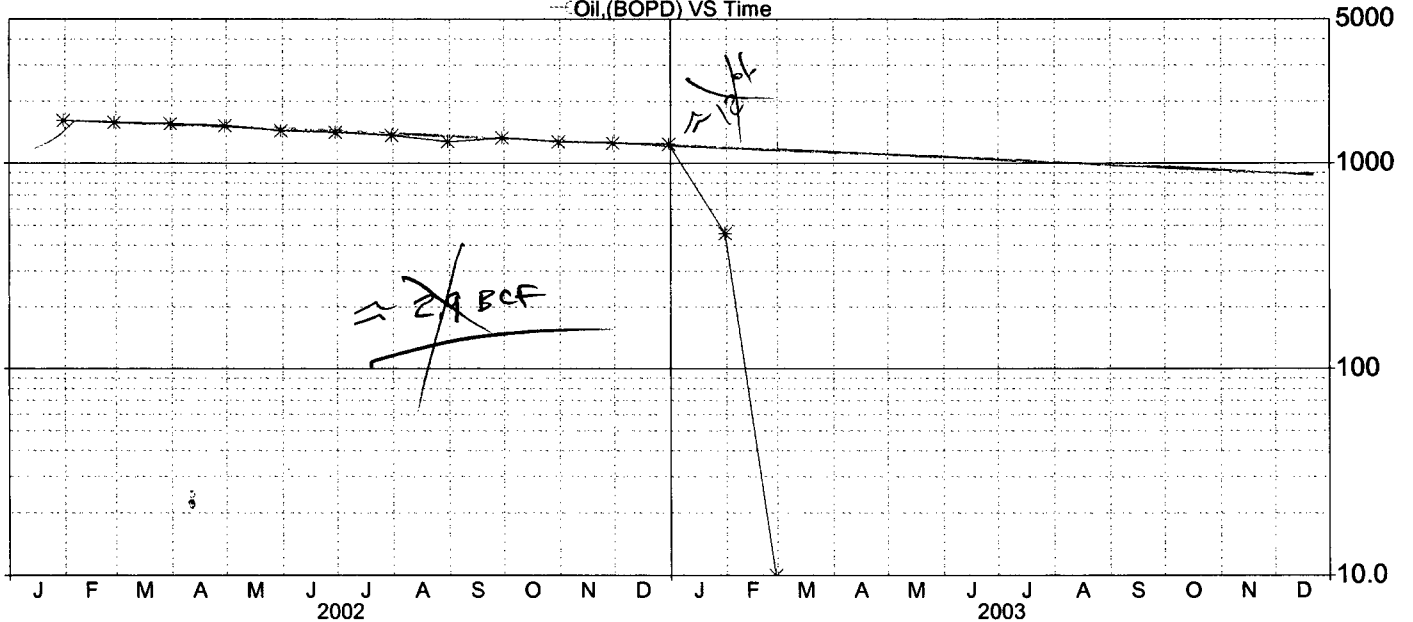
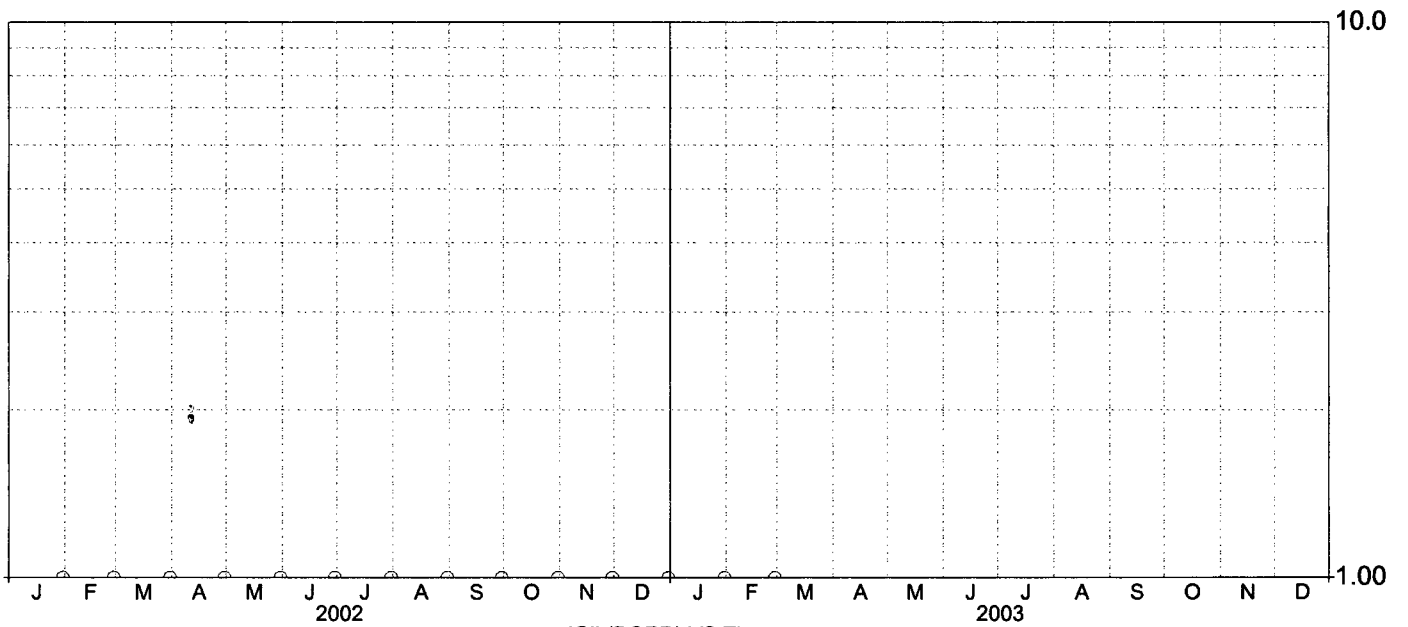




Well: POKER LAKE UNIT #153  
Field: DOG TOWN DRAW (MORROW)

Bass Enterprises Production Co.  
County: EDDY  
State: NM

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



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

1764470

5178  
180208  
86192  
31329  
15006  
22577  
9395  
14643  
11309  
12103  
10639  
8264  
7186  
0

Rem  
Morrow  
2.988  
From Decline  
Foot

Total  
ATOKA = 408,851  
↓  
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

