

District I - (505) 393-6161

PO Box 1980

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 S. First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

New Mexico

Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheco Street

Santa Fe, New Mexico 87505

(505) 827-7131

Form C-140

Originated 11/1/95

Submit Original

Plus 2 Copies

to appropriate
District Office

H-0273

APPLICATION FOR
QUALIFICATION OF WELL WORKOVER PROJECT
AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE
APPROPRIATE DISTRICT OFFICE OF THE CONSERVATION DIVISION.

I. Operator: Texaco Exploration & Production Inc OGRID #: 022351

Address: 205 E. Bender Blvd., Hobbs, New Mexico 88240

Contact Party: Paul Wilcox Phone #: (505) 397-0419

II. Name of Well: West Dollarhide Drinkard Unit #128 API #: 30 025 31975

Location of Well: Unit Letter D, 1310 Feet from the North line and 150 feet from the West line,
Section 33, Township 24S, Range 38E, NMPM, Lea County

III. Date Workover Procedures Commenced: 12-03-96 1-27-97

Date Workover Procedures were Completed: 01-17-97 2-18-97

IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based: Dollarhide Tubb Drinkard

VII. AFFIDAVIT:

State of N. M.

) ss.

County of Lea

Russell Pool, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.
2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.
Restoration Project.
3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

(Name)

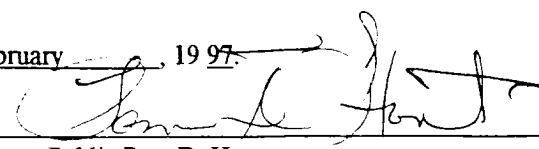
Senior Engineer Hobbs Operating Unit

(Title)

MAR 04 1997

2140

SUBSCRIBED AND SWORN TO before me this 27 day of February, 19 97.

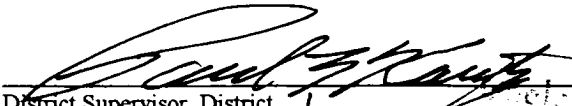

Notary Public Pam D. Hunt

My Commission expires: 9/13/97

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 2-18-97, 1997.


District Supervisor, District 1
Oil Conservation Division

Date: 03/10/97

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.
DATE: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well: ☒ OIL WELL ☐ GAS WELL ☐ OTHER

2. Name of Operator
TEXACO EXPLORATION & PRODUCTION INC.

3. Address and Telephone No. 205 E. Bender, HOBBS, NM 88240 397-0432

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit Letter D : 1310 Feet From The NORTH Line and 150 Feet From The

WEST Line Section 33 Township 24-SO Range 38-EA

5. Lease Designation and Serial No.

6. If Indian, Apache or Tribe Name

7. Unit or CA, Agreement Designation
8910115700

8. Well Name and Number
WEST DOLLARHIDE DRINKARD UNIT
128

9. API Well No.
30 025 31975

10. Field and Pool, Exploratory Area
DOLLARHIDE TUBB DRINKARD

11. County or Parish, State
LEA, NEW MEXICO

12. Check Appropriate Box(s) To Indicate Nature of Notice, Report, or Other Data

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Attering Casing	☐ Conversion to Injection
	☒ OTHER: CO2 ACID FRAC	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

01-27-97: MIRU. Pull rods & Pump. Tag @6771' (CIBP @6767'). Shut in.
01-28-97: Ran bit & casing scrapper to 6760'. POH. Ran RBP. Set RBP @6670'. Spot 2 sx sand on RBP. POH. Shut in.
01-29-97: Ran packer & test in, at 8000 psi, Frac Tubing. Set packer @6426'. Install Frac Tree. Load annulus w/produced water. Pressure test annulus to 1000 psi-held. Bled off pressure. Shut in.
02-01-97: Dowell acid frac Drinkard perms 6552-6635, W/24,000 gals 50 CO2 foamed 20%HCL & 42,300 gals 50 CO2 foamed w/ 140K, w/ 34,140# 20/40 resin. MAX PRES=6944PSI. MIN PRES=5044 PSI. AVG PRES=5200 PSI. AVG RATE =20 BPM. ISIP=1530 PSI. Start flowback. Tbg pres holding @1500 PSI. SHUT IN.
02-02-97: SITP=1700 PSI. RU Pro Well & flow to frac tanks.
02-03-97: Tbg pres this am=150 psi. Bled off. Release packer & pull out of hole laying down Frac Tbg. Ran bit & Drill Collars to 2200'. Left casing open to flowline. Shut down.
02-04-97: Rig up Foam Unit. Clean out resin coated frac sand from 6620' to 6670' (Top of RBP). Pull out of hole laying down drill collars. Left casing open to flowline. Shut down.
02-05-97: Release RBP @6670'. Pull out of hole. Ran production equipment. Remove BOP. Land bottom of Mud Anchor @6570' w/Seat Nipple @6542'. Left casing open to flowline.
02-06-97: Well flowing this am. Kill tubing. Ran pump & rods. Rig down. On production at 1 pm.
02-07-97 thru 02-12-97: Pumping & testing.
02-13-97: XL Scale Squeezed Drinkard Zone, via casing, 20 bbls produced water containing 10 gal TW 430 followed by 3 drums Techni-Hib 793 mixed in 30 bbls produced water. Flush w/300 bbls produced water containing 10 gal TW 467. Shut in at 10:00 am.
02-14-97 thru 02-17-97: Pumping & testing, Drinkard Zone. RBP @6670'.
02-18-97: On POTENTIAL TEST ending 10:00 am. 60 bbls Oil, 158 bbls Water, & 107 mcf Gas.

14. I hereby certify that the foregoing is true and correct

SIGNATURE *Paula S. Ives* TITLE Engineering Assistant DATE 2/26/97

TYPE OR PRINT NAME Paula S. Ives

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Production Projection

Well Name & #: Producing Formation: Oil Decline Rate (%): Gas Decline Rate (%): Completion Date (m/yr):	West Dollarhide Drinkard Unit #128		Prior Oil Prod. Rate (BOPD):		11
	Dollarthide Tubb Drinkard		Oil Decline Factor:		0.9454332
	49		Prior Gas Prod. Rate (MCFGD):		1
	32		Gas Decline Factor:		0.968372416
	Feb-97				
Month	Projected Oil Production	Projected Gas Production	Projected Cumulative Oil Production	Projected Cumulative Gas Production	
Feb-97	334	30	334	30	
Mar-97	316	29	651	60	
Apr-97	299	29	949	88	
May-97	283	28	1232	116	
Jun-97	267	27	1499	143	
Jul-97	253	26	1752	169	
Aug-97	239	25	1991	194	
Sep-97	226	24	2216	218	
Oct-97	213	24	2430	241	
Nov-97	202	23	2632	264	
Dec-97	191	22	2822	286	
Jan-98	180	21	3003	308	
Feb-98	171	21	3173	328	
Mar-98	161	20	3335	348	
Apr-98	152	19	3487	368	
May-98	144	19	3631	386	
Jun-98	136	18	3767	405	
Jul-98	129	18	3896	422	
Aug-98	122	17	4018	439	
Sep-98	115	17	4133	456	
Oct-98	109	16	4242	472	
Nov-98	103	15	4345	487	
Dec-98	97	15	4442	502	
Jan-99	92	15	4534	517	
Feb-99	87	14	4621	531	
Mar-99	82	14	4704	544	
Apr-99	78	13	4781	558	
May-99	74	13	4855	570	
Jun-99	69	12	4924	583	
Jul-99	66	12	4990	595	
Aug-99	62	12	5052	606	
Sep-99	59	11	5111	617	
Oct-99	56	11	5166	628	
Nov-99	52	10	5219	639	
Dec-99	50	10	5268	649	
Jan-00	47	10	5315	659	

Production Projection

Feb-00	44	10	5360	669
Mar-00	42	9	5402	678
Apr-00	42	9	5402	678
May-00	40	9	5441	687
Jun-00	37	9	5479	695
Jul-00	35	8	5514	704
Aug-00	34	8	5548	712
Sep-00	32	8	5579	720
Oct-00	30	8	5609	727
Nov-00	28	7	5638	735
Dec-00	27	7	5664	742
Jan-01	25	7	5690	749
Feb-01	24	7	5714	756
Mar-01	23	6	5736	762
Apr-01	23	6	5736	762
May-01	21	6	5758	768
Jun-01	20	6	5778	775
Jul-01	19	6	5797	780
Aug-01	18	6	5815	786
Sep-01	17	6	5832	792
Oct-01	16	5	5848	797
Nov-01	15	5	5864	802
Dec-01	14	5	5878	807
Jan-02	14	5	5892	812
Feb-02	13	5	5905	817
Mar-02	12	5	5917	821
Apr-02	12	5	5917	821
May-02	12	4	5928	826
Jun-02	11	4	5939	830
Jul-02	10	4	5950	834
Aug-02	10	4	5959	838
Sep-02	9	4	5969	842
Oct-02	9	4	5977	846
Nov-02	8	4	5986	850
Dec-02	8	4	5993	853
Jan-03	7	3	6001	857
Feb-03	7	3	6008	860
Mar-03	7	3	6014	863
Apr-03	6	3	6020	866
May-03	6	3	6026	869
Jun-03	6	3	6032	872
Jul-03	5	3	6037	875
Aug-03	5	3	6042	878
Sep-03	5	3	6047	880
Oct-03	4	3	6051	883
Nov-03	4	2	6055	885
Dec-03	4	2	6059	888
Jan-04	4	2	6063	890
Feb-04	4	2	6067	892

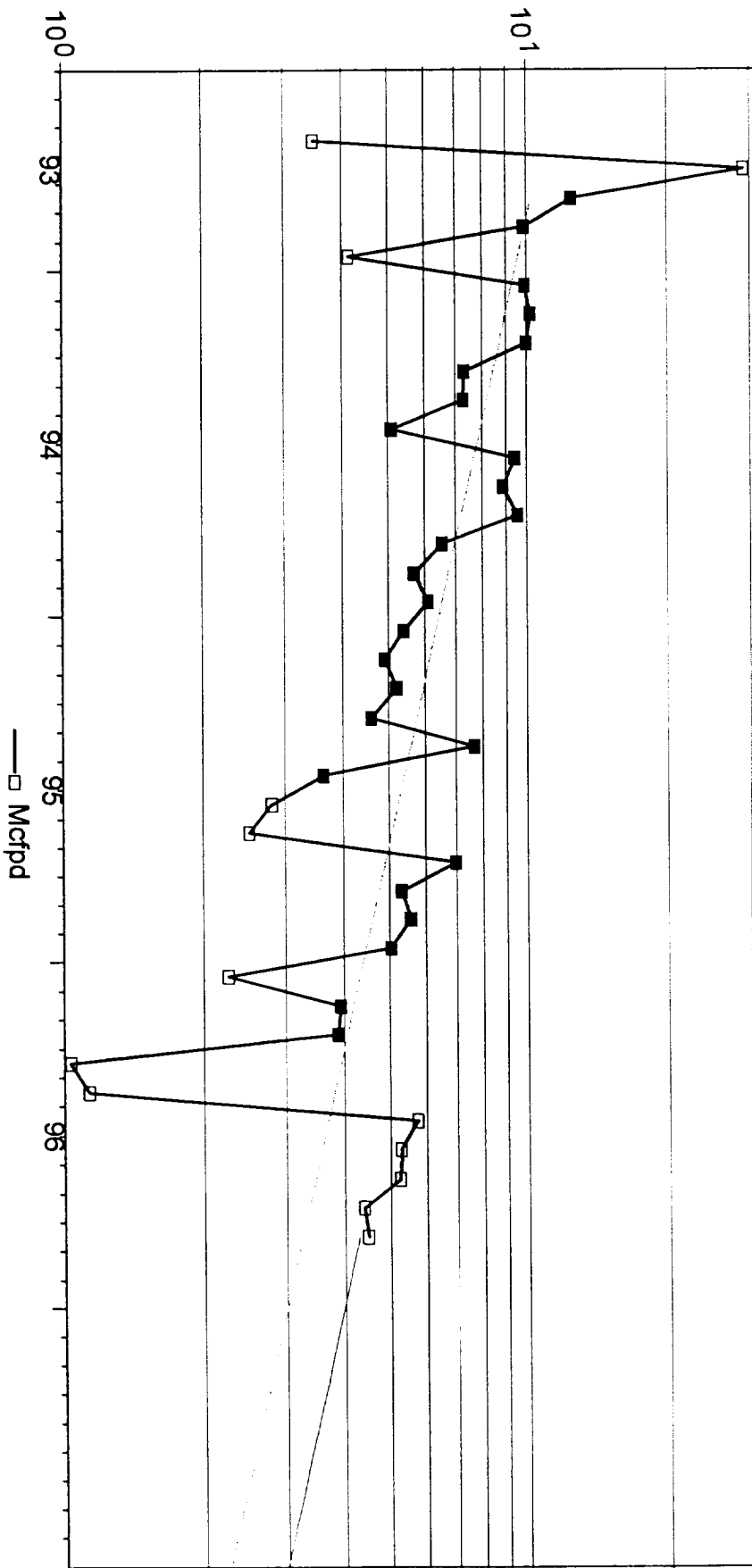
Production Projection

Mar-04	3	2	6070	894
Apr-04	3	2	6073	897
May-04	3	2	6076	899
Jun-04	3	2	6079	901
Jul-04	3	2	6082	903
Aug-04	3	2	6084	904
Sep-04	2	2	6087	906
Oct-04	2	2	6089	908
Nov-04	2	2	6091	910
Dec-04	2	2	6093	911
Jan-05	2	2	6095	913
Feb-05	2	2	6097	914
Mar-05	2	1	6099	916
Apr-05	2	1	6100	917
May-05	2	1	6102	919
Jun-05	1	1	6103	920
Jul-05	1	1	6105	921
Aug-05	1	1	6106	923
Sep-05	1	1	6107	924
Oct-05	1	1	6108	925
Nov-05	1	1	6109	926
Dec-05	1	1	6110	927
Jan-06	1	1	6111	928
Feb-06	1	1	6112	929
Mar-06	1	1	6113	930
Apr-06	1	1	6114	931
May-06	1	1	6115	932
Jun-06	1	1	6116	933
Jul-06	1	1	6117	934
Aug-06	1	1	6117	935
Sep-06	1	1	6117	936
Oct-06	1	1	6118	937
Nov-06	1	1	6119	937
Dec-06	1	1	6119	938
Jan-07	0	1	6120	939
Feb-07	0	1	6120	940
Mar-07	0	1	6121	940
Apr-07	0	1	6121	941
May-07	0	1	6121	942
Jun-07	0	1	6122	942
Jul-07	0	1	6122	943
Aug-07	0	1	6122	943
Sep-07	0	1	6123	944
Oct-07	0	1	6123	944
Nov-07	0	1	6123	945
Dec-07	0	1	6124	945
Jan-08	0	0	6124	946
Feb-08	0	0	6124	946
Mar-08	0	0	6124	947

WDDU #128: GAS Decline for Severance Credit

Well: 128 ID: 3002531975 Type: OIL Monthly

◊ POP Ac Abo
 (8Mgal15
 %) CO2Acf
 rac Drk
 (15Mgal
 20%, x=65)
 ◊ PMP B&S-WEA
 R
 ED-EXT
 ◊ MORE Trash in
 PMP?
 ◊ EFF CAUSE ?,
 Low Eff



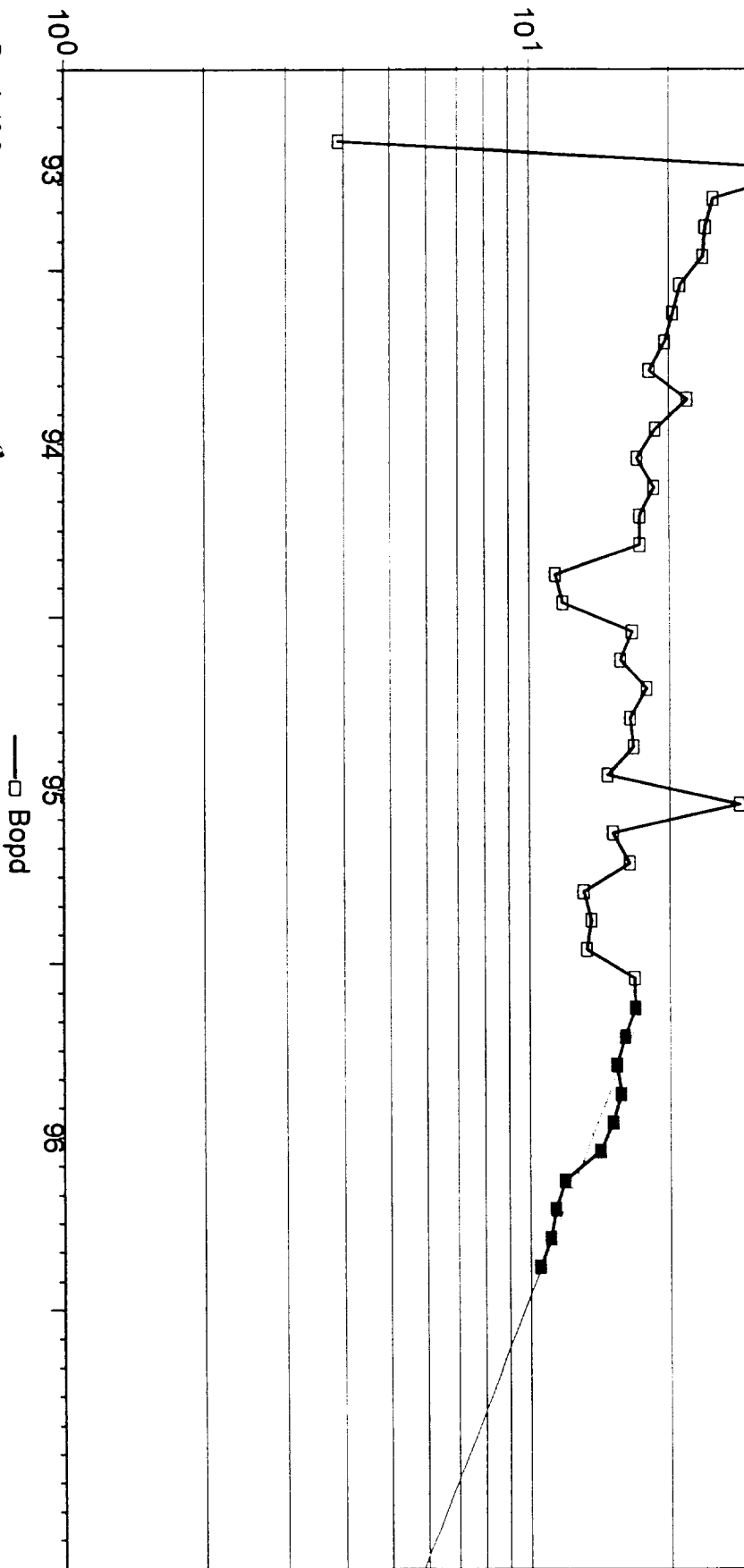
Cum stream: Mcfd, 29.2
 Fit Decline, 1/yr:
 Forecast Decline, 1/yr:
 Begin Date, Rate:
 End Date, Rate, Yrs:
 Cum at Begin:
 Remaining:
 Total Reserves:

Exp, 0.38
 Exp, 0.38
 19961001, 4.30
 20060730, 0.10, 9.83
 4.48
 4008.02
 4012.50

WDDU #128: OIL Decline for Severance Credit

102 Well: 128 ID: 3002531975 Type: OIL Monthly

- ◊ POP Ac Ab0
- (8Mgal15
- %) CO2Act
- rac Drk
- (15Mgal
- 20%, x=65)
- ◊ PMP B&S-WEA
- R
- ED-EXT
- ◊ MORE Trash in
- PMP?
- ◊ EFF CAUSE ?,
- Low Eff



Cum stream: Bopd, 40.2
Fit Decline, 1/yr:
Forecast Decline, 1/yr:
Begin Date, Rate:
End Date, Rate, Yrs:
Cum at Begin:
Remaining:
Total Reserves:

Exp, 0.67
Exp, 0.67
19961101, 10.54
20031011, 0.10, 6.94
10.47
5684.94
5695.41

De = (e^{-Dn} - e^{-Dn}) + 1
De = [1 - e^{-Dn}]