NC. ABOVE THIS LINE FOR DIVISION USE ONI NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS Application Acronyms: [NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [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] ß 15 W [1] TYPE OF APPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling [A] SEP | 5 1997 **NSP NSL** Check One Only for [B] or [C] CONSERVATION DIVISION Commingling - Storage - Measurement [B] DHC D PLC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] **D**EOR WFX NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] U Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner **[B]** Application is One Which Requires Published Legal Notice [C] Notification and/or Concurrent Approval by BLM of SLO [D] U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attached, and/or, [E] U Waivers are Attached **[F]**

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

James Bruce P.O. Box 1056 Santa Fe, NM 87504

Note: Statement must be completed by an individua	al with supervisory capac	ity.	
$// \mathcal{A}$	du	6211	
Lames June	All war	P) holicant	7/12/97
 Signature	Title	H	Date

Print or Type Name

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JAMESBRUCE

DISTRICT 7.0, 8== 1930, Hobbs, NM 83241-1960 `I <mark>STRICT </mark> ,1 South Firet St., Arcesie, NM 86210-2838 DISTRICT 1900 Rie Biatos Rd, Acces, NM 87410-1683	State of New Energy, Minerals and Natura OIL CONSERVAT 2040 S. F Santa Fe, New Mes APPLICATION FOR DOW	Form C-107-A New 3-12-96 APPROVAL PROCESS: AdministrativeHearIng EXISTING WELLBORE X YESNO						
Mallon Oil Company	999 - 18 Addie	th Street, Suite 170	0, Denver, CO 80202					
Mescalero 30 Federal		195-34E	Lea					
OGRID NO. 009171 Property Code	•		nit Luase Types: Icheck 1 er moret State (and/or) Fee					
The Tollswing furthing and a in			Lower Zona					
1. Pool Name and Pool Code	Strawn Undesignated	Quail Ridge Morrow 83280						
2. Top and Bottom of Pay Section (Perforationa)	12214-12224'	13227-13374'						
3. Type of production (Oil or Gas)	011	Gas						
4. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing						
5. Bottomhole Pressure Oll Zones - Artificial Lift: Estimated Current	8. ^(Current) SEE ATTACH	MENT A	8.					
Estimated Current Gas & Oil - Flowing: All Gas Zones: Estimated Or Measured Original	b. ^(Originel)	b.	ь.					
8. Oil Gravity ([°] API) or Gas BTU Content	46.8 AP1	1263 BTU 51.5 AP1						
7. Producing or Shut-In7	SI, Not Perforated	Producing						
Production Marginal? (yes or no)	Y	N						
 If Shut-In, give date and oil/gas/ water rates of last production 	Dete: Rates:	Deto; Reto;	Date: Rates:					
Note: For new cases with no production history, applicant shall be required to attach production estimates and supporting data								
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Dete: Estimated Retroit 30 BOPD 50 MCFG, BWPD	Dete: 7/3/97 Mates: 42 BOPD 688 MCFD, 27 BWPI	Duto: Asive:					
8. Fixed Percentage Allocation Formula - % for each zone	0 ^{11:} 40 % ^{Geo;} 5 %	on: 60 % ^{Gas:} 95 %	011: Gəs: % %					
 9. If allocation formula is based upon something other than ourrent or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data. 10. Are all working, overriding, and royalty interests identical in all commingled zones? <u>X</u> Yes No 11 not, have all offset operators been given written notice of the proposed downhole commingling? <u>X</u> Yes No 1. Will cross-flow occur? Yes X No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. Yes No (If No, attach explanation) 12. Are all produced fluids from all commingled zones compatible with each other? X Yes No 13. Will the value of production be decreased by commingling? Yes X No (If Yes, attach explanation) 14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes No 15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). 16. ATTACHMENTS: Clo2 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. Pota to support allocation method or formula. Pota to support allocation experience. No tification list of all offset operators. Notification list of all offset operators. Notification list of working, overriding, and royalty interests for uncommon interest cases. Any additional statements, data, or documents required to support commingling. 								
I hereby certify that the informati	·		······································					
	Ane		DATE9/2/97					
TYPE OR PRINT NAME Ray	E. Jones							

MALLON OIL COMPANY Mescalero 30 Federal No. 4 SWNE Section 30-T19S-R34E Lea County, New Mexico

ATTACHMENT A

	Strawn	Morrow
Measured bottom hole flowing pressure, psi		1200
Estimated bottom hole flowing pressure, psi	1200	
Measured original shut-in bottom hole pressure, psi	6462	7000

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

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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico Energy, Minerals and Natural Resources Department

a state a service state of

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	<u> </u>				Lease	****	Well No.			
Mallon	0il C	ompan	у.		Mescale	ro 30 Fed	leral		4	
Unit Letter	Sectio	D D	Township		Range			County	<u> </u>	
G		30	198	5	34E		NMPM	Lea		
Actual Footage L	ocation of	Well:		- <u> </u>				· · · · · · · · · · · · · · · · · · ·		
1330		rom the	North	line and	1330		feet from	the East	line	
Ground level Elev	v.		ducing Formation		Pool				Dedicated Acre	age:
3667'			rawn		<u> </u>				40	Acres
1. Out	line the ac	reage ded	licated to the subjec	t well by colored per	ncil or nachure n	uarks on the plat	below.			
2. If m	ore than o	one lease i	is dedicated to the v	well, outline each and	i identify the ow	nership thereof (both as to working	ng interest and	royalty).	
uniti If answ this for	ization, fo Yes ver is "no' rm if necc	rce-poolin ' list the c essary	ng, etc.? No wwners and tract dea	hip is dedicated to th If answer is "yes" ty scriptions which have	pe of consolidati e actually been co	on onsolidated. (Us	se reverse side of			
No allo or unti	owable wi l a non-st	ll be assig andard un	gned to the well unt it, eliminating such	il all interests have b interest, has been ap	een consolidated proved by the D	(by communitiz ivision.	zation, unitization	n, forced-poolin	g, or otherwise)	
					<u> </u>		[OPERAT	OR CERTIFI	CATION
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Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

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

State of New Mexico Energy, Minerals and Natural Resources Department

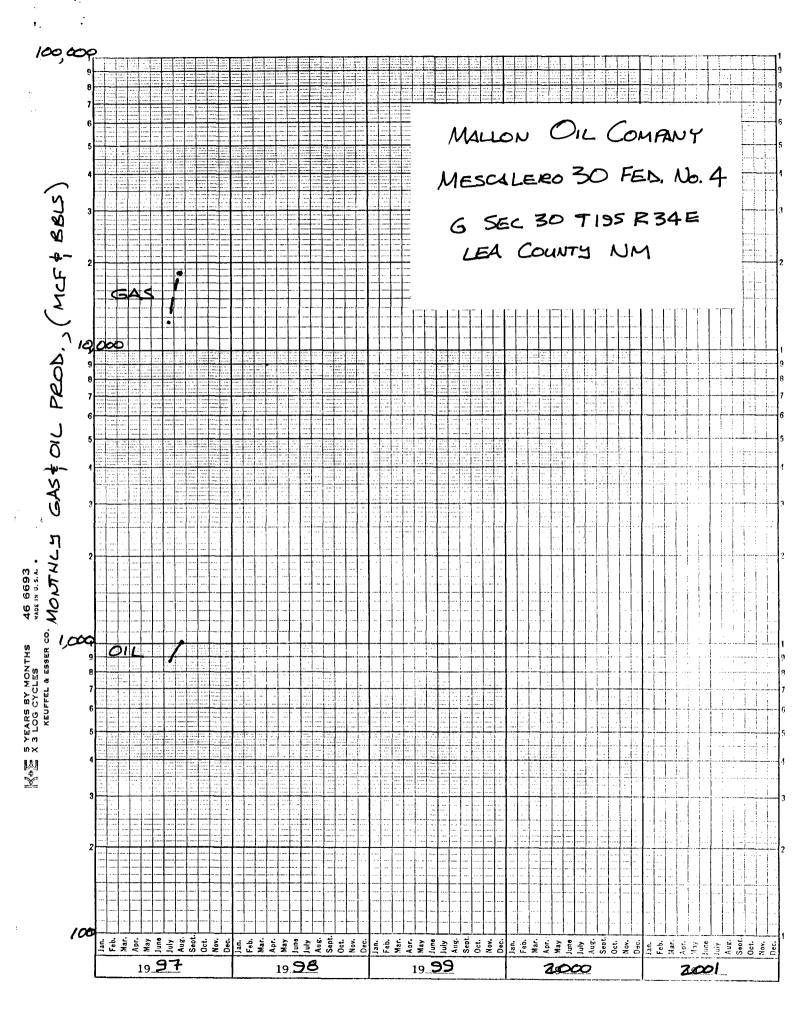
OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator					Lease				Well No.		
Mallon Oi	.1 C	ompany			Mesca	lero 30 Fe	ederal		4		
Unit Letter	Section		Township		Range	· ·	, ,	County	·		
G	3		19S			34E	NMP	M Lea	a		
Actual Footage Loca	tion of	Well:									
1330	feet f	rom the N	North	line and	1330)	feet fro	mthe East	line		
Ground level Elev.			ng Formation		Pool				Dedicated Acre	age:	
3667'	41-0-0	Morro		he alard as		Ridge Morn			320	Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.											
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).											
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?											
If answer this form i			rs and tract descripti	ons which have	actually been	consolidated. (U	se reverse side	of			
			to the well until all	interests have b	een consolida	ed (by communitiz	zation, unitizati	on, forced-poolin	g, or otherwise)		
			iminating such inter					•			
·			· · · · · · · · · · · · · · · · · · ·	<u> </u>				OPERAT	OR CERTIFI	CATION	
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MALLON OIL COMPANY Mescalero 30 Federal No. 4 SWNE Section 30-T19S-R34E Lea County, New Mexico

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Estimated production rates for the Strawn are based upon production data copy attached, from the Union Oil Co. Smith #1 well in S25T19SR33E.

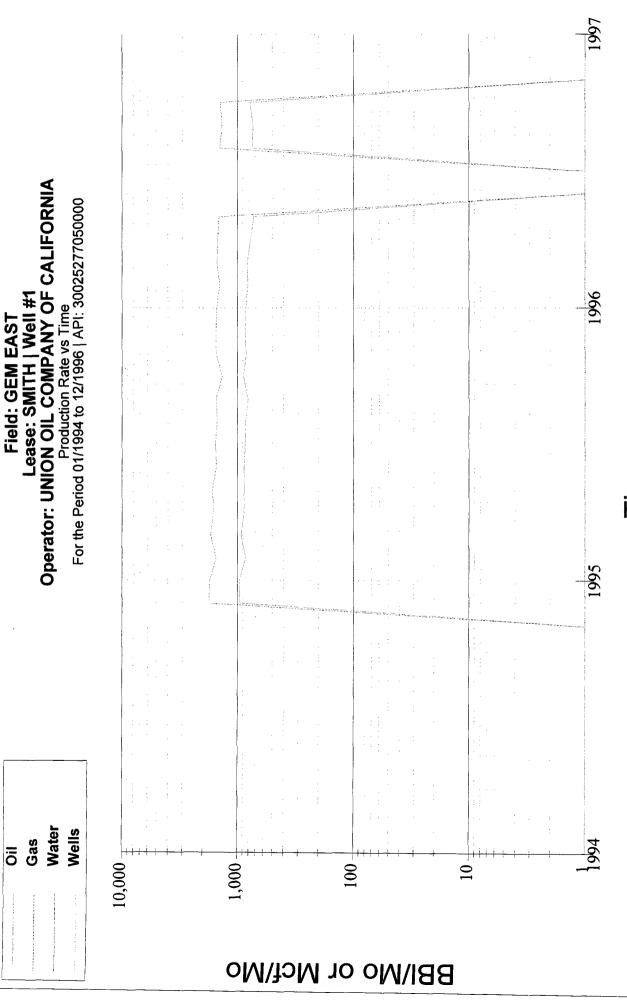
The allocation formula is based upon the actual Morrow production and estimated Strawn production rounded to the nearest 5%.

Aug-28-1997 13:47 2 of 2	Petroleum Inf Southeast Full Entity M	ormation's Pr New Mexico Monthly Produc	information Corp roduction Data o - October 1996 ction Report - U	n CD-ROM SGS(PI)	42826				
Entity : SMITH (011488) Field : GEM EAST (23010) Reservoir: STRAWN (PENN) (471) Operator : UNION OIL COMPANY OF CALIFORNIA (34551) Location : S25 T19S R33E J LEA Basin : PERMIAN (430) Zone : STRAWN (404STRN) API : 30025277050000 Well Information									
	Well Total umber Depth 1 13650	n Perf Per	er Well of BHP Type 37 PRORA	Sha	. Tight le HRZ Sand NO NO NO				
Nbr Date	Upper Lower Perf Perf N 12175 12187	Gas Liq 4CFD BPD 74 39.0		res Liq FTP Grav 40 46.8	Grav Mt				
		Monthly Produ							
Year (1 1994 CUM 1994 JAN 1994 FEB 1994 MAR 1994 APR 1994 MAY 1994 JUN 1994 JUL 1994 JUL 1994 AUG 1994 SEP 1994 OCT 1994 NOV	Gas Li MCF) (BBI	LŠ) (BBLS)	Gas Liq) Trans Tran	s Wells	Ōn				
		956 956	0		1 31				
1995 JAN 1995 FEB 1995 MAR 1995 APR 1995 JUN 1995 JUL 1995 JUL 1995 AUG 1995 SEP 1995 OCT 1995 NOV 1995 DEC 1995 ANN 1	1734 9 1536 8 1705 9 1621 8 1649 8 1531 8 1550 8 1507 8 1528 8 1359 8 1533 8 1538 8 8791 104		0		1 31 1 28 1 31 1 30 1 31 1 30 1 31 1 29 1 29 1 29 1 30 1 31				
1996 JAN 1996 FEB	1427 8	441 347 310 323			1 31 1 28 1 31				

Aug-28-1997 13:47 2 of 2	Copyright 1997 Petrole Petroleum Information' Southeast New Mexi Full Entity Monthly Pr	s Production Data o co - October 1996	n CD-ROM		42826
Reservoir: STRAW Operator : UNION Location : S25 T Basin : PERMI Zone : STRAW API : 30025	AST (23010) N (PENN) (471) OIL COMPANY OF CALIFOR 19S R33E J LEA AN (430) N (404STRN)	NIA (34551)	Well# Lat	: 1994 : 1994 : ACT : HOB : 1 : 32.0	610 IVE BS
1996 SEP 1996 OCT 1996 NOV 1996 DEC	1418 739 1365 735 1410 784 1585 6232	0		1 1 1	30 30 30

Plot Displays Monthly Totals Copyright (C) 1997 by Petroleum Information Corporation

1996 Time 1995 Reported Oil Production = 17,673 Bbls Reported Gas Production = 32,139 Mcf Reported Water Production = 0 Bbls 1994



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MALLON OIL COMPANY Mescalero 30 Federal No. 4 SWNE Section 30-T19S-R34E Lea County, New Mexico

STRAWN EXAMPLE ECONOMICS QUAIL RIDGE AREA LEA COUNTY, NM

Example economics are attached for drilling a single Strawn completion in the Quail Ridge area. The oil and gas projections were based upon the closest Strawn producer, Union Oil Co. Smith #1 in S25T19SR33E. Drilling and operating costs were based upon current price estimates. As shown by the attached economics, a single zone Strawn completion would be uneconomic and, therefore, not attempted without downhole commingling.

MALLON OIL COMPANY

DATE: 08/29/97 TIME: 11:36:51

AS OF JUL 1, 1997

*** SUMMARY ***

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	STRAWN EXAMPLE ECONOMICS Quail Ridge Area						PW 5.0 PW 15.0 PW 20.0 PW 25.0 PW 30.0	% % %	-308.504 BTAX -522.921 BTAX -587.748 BTAX -636.735 BTAX -674.748 BTAX		
				ELL COUNT		END-PRICES	AVG-PRICES		GROSS RE		
• •				ROSS NET	OIL 18.75	18.75	18.75		CUMULATIVE	REMAINING	
ORI (%)			0.0000 0	1.0 1.0	GAS 1.90	1.90		IL (MBBLS)	0.000	81.375	
GRI (%)	80.0000 80	.0000 80	0.0000 G	0.0 0.0			G	AS (MMCF)	0.000	146.475	
	NUMBER GROSS WELLS 30)	GROSS PROD OIL + COND 5)MBBLS	GROSS GAS PRODUCTION 7)MMCF	WORKING INTEREST 34)-%	REVENUE INTEREST 35)-%	NET OIL VOLUME 14)MBBLS	NET GAS VOLUME 20)MMCF	EFFECTIVE O+C PRICE 31)\$/BBL	EFFECTIVE GAS PRICE 32)\$/MCF	NET TOTAL REVENUE 60)-M\$	
(6M0)1997	1.0	5.580	10.044	100.00000	80.00000	4.464	8.035	18.75		98.963	
1998	1.0	10.145	18.260	100.00000	80.00000	8.116	14.608	18.75			
1999	1.0	8.927	16.069	100.00000	80.00001	7.142	12.855	18.75			
2000	1.0	7.856	14.141	100.00000	80.00000	6.285	11.313	18.75			
2001	1.0	6.913	12.444	100.00000	80.00001	5.531	9.955	18.75		122.613	
2002	1.0	6.084	10.951	100.00000	80.00000	4.867	8.760	18.75			
2003	1.0	5.354	9.636	100.00000	80.00000	4.283	7.709	18.75	1.90		
2004	1.0	4.711	8.480	100.00000	80.00000	3.769	6.784	18.75			
2005	1.0	4.146	7.462	100.00000	80.00000	3.317	5.970	18.75			
2006	1.0	3.648	6.567	100.00000	80.00001	2.919	5.254	18.75			
2007	1.0	3.211	5.779	100.00000	80.00000	2.568	4.623	18.75			
2008	1.0	2.825	5.085	100.00000	80.00000	2.260	4.068	18.75			
2009	1.0	2.486	4.475	100.00000	80.00000	1.989	3.580	18.75			
2010 2011	1.0 1.0	2.188 1.925	3.938 3.466	100.00000 100.00000	80.00001 80.00001	1.750 1.540	3.151 2.772	18.75			
SUB TOTAL	1.0	75.998	136.797	100.00000	80.00000	60.799	109.437	18.75 18.75			
REMAINDER	1.0	5.377	9.679	100.00000	80.00000	4.302	7.743	18.75			
TOT 18.3 YR		81.375	146.475	100.00000	80.00000	65.100		18.75			
		0				0,1,00		10113	1.70	1445.210	
	NET LOE	NET SEV	NET ADVAL	NET TOTAL	NET OPER	NET TOTAL	BTAX	CUM BTAX	BTAX CF	CUM BTAX CF	
	(FIX + VAR)	TAXES	TAXES	EXP + TAXES	REVENUE	INVESTMENT	CASHFLOW	CASHFLOW	DISC 10.00%		
	111)-M\$				156)-M\$	143)-M\$	163)-M\$	164)-M\$	165)-M\$	166)-M\$	
(6MO)1997	9.000	7.136	2.184		80.642	1100.000	-1019.358	-1019.358			
1998	18.000	12.974	3.971	34.946	144.977	0.000	144.977	-874.380			
1999	18.000	11.418		32.912	125.420	0.000	125.420	-748.960			
2000	18.000	10.047		31.123	108.210	0.000	108.210	-640.751			
2001	18.000	8.842		29.548	93.064	0.000	93.064	-547.686			
2002 2003	18.000 18.000	7.781 6.847	2.382 2.096		79.737 68.008	0.000 0.000	79.737 68.008	-467.950			
2003	18.000	6.025	1.844	25.870	57.687	0.000	57.687	- 399.9 41 -342.254			
2005	18.000	5.302	1.623	24.925	48.605	0.000	48.605	-293.649			
2006	18.000	4.666	1.428	24.094	40.612	0.000	40.612	-253.037			
2007	18.000	4.106	1.257		33.579	0.000	33.579	-219.458			
2008	18.000	3.613	1.106		27.389	0.000	27.389	-192.069		-453.908	
2009	18.000	3.180	0.973		21.943	0.000	21.943	-170.126			
2010	18.000	2.798	0.856	21.655	17.149	0.000	17.149	-152.977			
2011	18.000	2.462	0.754	21.216	12.932	0.000	12.932	-140.045	3.401	-438.568	
SUB TOTAL	261.000	97.199	29.750		959.955	1100.000	-140.045	-140.045	-438.568		
REMAINDER	67.500	6.877		76.482	18.884	0.000	18.884	-121.161			
TOT 18.3 YR	328,500	104.076	31.855	464.431	978.839	1100.000	-121.161	-121.161	-434.339	-434.339	

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