dugan production corp.

December 16, 1988

New Mexico Oil Conservation Division
310 Old Santa Fe Trail, Room 206
Santa Fe, NM 87503

Attention: William LeMay

Re: Request for administrative approval to downhole commingle
Basin Dakota Gas Pool and
Angel Peak Gallup Associated Oil Pool
Dugan Production Corp's
Mc Adams No. 4
Federal Lease No. SF-081087
Unit N, Section 34, T27N, R10W, NMPM
San Juan County, New Mexico

Dear Mr. LeMay:

We are writing to request administrative approval for the downhole commingling of production from the Basin Dakota Gas Pool and the Angel Peak Gallup Associated Oil Pool in the subject well.

The McAdams No.4 well was drilled in July of 1958 and dually completed in the Angel Peak Gallup Associated Oil Pool and the Basin Dakota Gas Pool, which was permitted by Order DC #654. The Gallup formation was perforated in the 6236'-6248.5' interval and stimulated with 700 bbls of oil with 17,000 lbs of sand. The Dakota formation was perforated in the intervals of 6914'-6950' and 6974'-6994' and stimulated with 740 bbls of oil with 25,000 lbs. of sand (see Attachment No. 1).

The Basin Dakota Formation in the area is generally depleted and currently is only capable of marginal production. As can be seen by Table No. 1, the average production of the offsets for 1987 was 55 MCFD. The highest averages are those of infill wells which do not have the long production histories of the original wells. The McAdams No. 2 which is located in Unit P Section 34, T27N, R10W and is on the same lease as the subject well, has a life-time Basin Dakota cumulative as of January 1, 1988 of 1,161,265 MCF of gas and 15,312 bbls of condensate. The McAdams No. 3, located in Unit H, Section 34, T27N, R10W which is also on the same lease as the McAdams No. 4, has a life-time Basin Dakota cumulative as of January 1, 1988 of

744,909 MCF of gas and 9281 bbls of condensate. Cumulative production for the Basin Dakota zone in the McAdams No. 4 as of October 1, 1988 is 1,030,928 MCF of gas, 10868 bbls of condensate and 1093 bbls of water. The 1988 production for the McAdams No. 4 has averaged 46.9 MCF of gas per day with no condensate produced and negligible water production. The Dakota zone is produced into a high pressure system operated by El Paso Natural Gas (EPNG).

The Gallup zone is currently also only capable of marginal production and has been shut-in since 1971. The cumulative production for the McAdams No. 4 from the Angel Peak Gallup Associated Oil Pool as of August 1, 1988 is 25219 bbls of oil, 3,273,449 MCF of gas and 422 bbls of water. The Gallup was connected to a low pressure system operated by EPNG. The Gallup zone was disconnected by EPNG on April 11, 1973 due to non-productivity.

The ownership of the two pools involved is common in both the working interest and the royalty interest since lease No. SF-081087 is held and is comprised of all of Section 34, T27N, R10W. The production unit for the Gallup is 320 acres which covers the W/2 Section 34, T27N, R10W and is a joint unit with the McAdams No. 1 (F, 34, T27N, R10W) which is completed only in the Gallup. The Dakota production unit is also the W/2 Section 34, T27N, R10W.

A northwest offset, the McAdams No. 3 (H, 34-T27N-R10W) was downhole commingled in 1976 by Order DHC #5313, in the Angel Peak Gallup Associated Oil Pool and the Basin Dakota Gas Pool. An east offset, the McAdams No. 2 (P, 34-T27N-R10W) was also downhole commingled in the Angel Peak Gallup and Basin Dakota zones by Order R-6824 on November 24, 1981. Commingled production from these two wells appears to be compatible and to date there has been no evidence that the mixing of the fluids have resulted in the formation of precipitates which would be damaging to either zone. It is a common practice to downhole commingle production from the Gallup and Dakota formations and we are not aware of any fluid sensitivity of either formation in the Angel Peak Gallup Associated Oil Pool or the Basin Dakota Gas Pool in this area. Both formations are routinely stimulated using water so we would not expect either zone to be subject to damage from water or other produced liquids.

The McAdams No. 3 which has been commingled since 1976 has allocation factors as follows:

	Oil	Gas
Gallup	80%	20%
Dakota	20%	80%

The McAdams No. 2 which has been commingled since 1981 also has the following allocation factors:

	Oil	Gas
Gallup	80%	20%
Dakota	20%	80%

The total value of the crude produced should not be reduced by commingling the Gallup and the Dakota zones in the McAdams No. 4. Nor should the commingling jeopardize the efficiency of present or future secondary recovery operations in either of the zones to be commingled. The proposed commingling is necessary to permit the Basin Dakota zone to continue to be produced which will not otherwise be economically producible. By using the gas from the Dakota to assist in lifting fluids from the Gallup, we are optimistic that the Gallup will be able to again produce. With the low volumes of gas currently being produced and considering the current gas market, work to repair a recently developed tubing or packer leak will add an economical burden which may force the premature abandonment of both zones in the well before recoverable reserves are completely depleted and will result in the waste of hydrocarbons.

We do not believe that cross-flow will occur from commingling these zones. The bottomhole pressure has been calculated to be 241 psia in the Dakota and 361 psia in the Gallup. Because the Dakota has produced continually since the well was completed, we used its current shut-in wellhead pressure. To calculate the Gallup reservoir pressure, we used a shut-in wellhead pressure taken during the packer leakage test in June 1971 which was approximately the last date of production from the Gallup. We feel that these pressures are indicative of the maximum bottomhole pressures which could currently exist. It should be noted that the bottomhole pressures in both zones are very close to abandonment pressures.

Attached are copies of the letter sent to all offset operators and the Bureau of Land Management notifying them of this proposed commingling. The BLM was notified because of the Federal acreage involved. Attachment No. 2 is a listing of all offsetting leases and operators. Attachment No. 3 is a plat of the area showing the acreage dedicated to the well and the offsetting leases.

In summary, Dugan Production is requesting administrative approval for the downhole commingling of production from the Basin Dakota Gas Pool and the Angel Peak Gallup Associated Oil Pool in the McAdams No. 4 well located in Section 34, T27N, R10W, San Juan County, New Mexico.

Should you have any questions concerning this request, please contact me or John Roe of this office.

Sincerely,

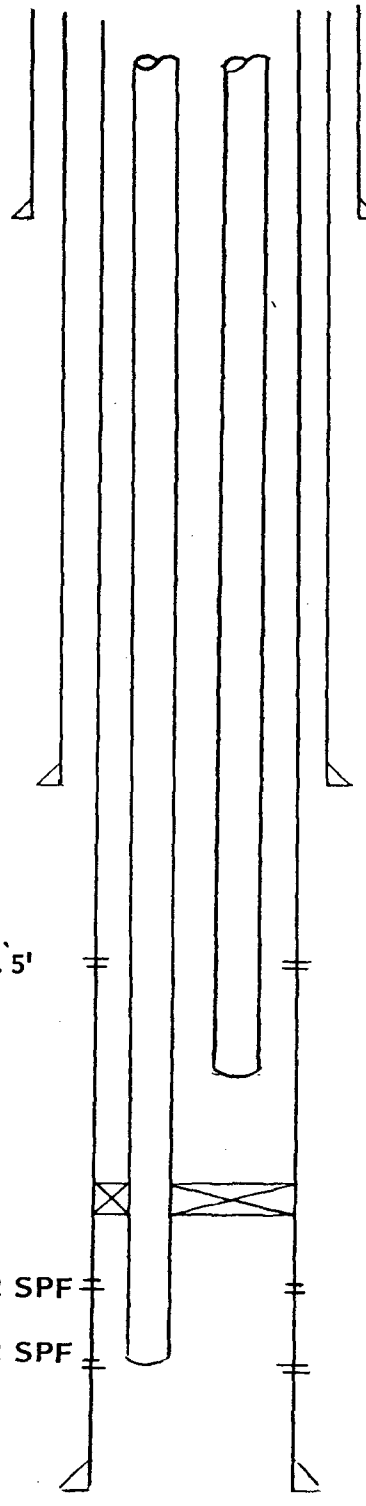
Barbara L. Williams
Engineer

BW\dhc\mcadams.4

APPLICATION FOR DOWNHOLE COMMINGLING

Attachment No. 1

McAdams #4
990' FSL & 1650' FWL
Sec. 34, T27N, R10W
San Juan County, NM



10-3/4", 40#, J-55 set at 192'.

7-5/8", 26#, J-55 set at 5050'.

Gallup Perfs:
6236' - 6248.5'
4 SPF

Sand/oil frac: 700 bbl oil & 17,000# sand.

Dakota Perfs:
6914'-6950' 2 SPF
6974'-6994' 2 SPF

Sand/oil frac: 740 bbl oil & 25,000# sand.

5½", 15.5#, J-55 set at 7100'.

TABLE NO. 1
Downhole Commingling Application
Immediate Offsets

		BASIN DAKOTA COMPLETION						ANGEL PEAK GALLUP COMPLETION				
		Cumulative 1-1-88		1987 Production				Cumulative 1-1-88		1987 Production		
Company & Lease	Location	Gas - MCF	Oil-Bbl	MCF-Gas	Oil-Bbl	1987 Avg. MCFD	1987 Avg. BOPD	Gas-MCF	Oil-Bbls	Gas-MCF	Oil-Bbls	1987 Avg. MCFD/BOPD
AMOCO												
Jack Frost B												
1	P-27-27-10	1,401,311	19,036	3,821	7	10	TSTM	86,312	3,224	Last Production 6/1973		
1E	M-27-27-10	407,637	7,583	37,593	510	103	1.4	88,573	1,129	11,858	148	32/0.4
MERIDIAN												
Huerfano Unit												
103	C-3-26-10	521,990	8,386	3,081	0	8	----	1,990,496	17,779	2,764	0	7.6/0
106	J-33-27-10	1,223,745	29,503	15,258	702	42	0.6	6,994,800	47,092	157,717	1283	432/3.5
106E	A-33-27-10	83,804	5,004	29,190	592	80	1.6	Not Completed in Gallup				
110E	H-3-26-10	137,834	2,299	48,424	467	133	1.3	Not Completed in Gallup				
DUGAN PRODUCTION												
McAdams												
1	F-34-27-10	Not Completed in Basin Dakota						2,638,968	25,605	56,746	259	155/0.7
2	P-34-27-10	1,161,265	15,312	15,145	108	41	0.3	4,467,274	30,997	Last Production 5/1985		
3	H-34-27-10	744,709	9,281	7,279	18	20	TSTM	1,150,873	55,507	1,802	73	4.9/0.2

Attachment No. 2

DOWNHOLE COMMINGLING APPLICATION

OFFSET OPERATORS AND LEASES
McADAMS No. 4
SW/4 Section 34, T27N, R10W
San Juan County, New Mexico

T-27-N, R-10W

Sec. 27: All
Amoco Production Company
SF-077951-A

Sec. 26: W/2
Amoco Production Company
SF-077951

Sec. 35: NW/4, N/2 SW/4
El Paso Natural Gas Company
SF-077950

Sec. 35: S/2 SW/4
El Paso Natural Gas Co.
SF-079917

Sec. 34: W/2
Dugan Production Corp.
SF-081087

Sec. 34: E/2 NE/4
Dugan Production Corp.
SF-081087

Sec. 28: All
Amoco Production Co.
SF-077941-A

Sec. 33: NW/4
El Paso Natural Gas Co.
SF-078233

Sec. 33: NE/4
El Paso Natural Gas Co.
SF-077950

Sec. 33: S/2 SE/4
El Paso Natural Gas Co.
SF-078354

Sec. 33: SW/4 & N/2 SE/4
El Paso Natural Gas Co.
NM-02516

T-26-N, R-10-W

Sec. 3: E/2
El Paso Natural Gas Co.
SF-078267-A

Sec. 3: W/2
El Paso Natural Gas Co.
SF-078267

Sec. 2: NW/4
El Paso Natural Gas Co.
E-921-7, B-8801-29, B-11356-18

Sec. 4: N/2
El Paso Natural Gas Co.
NM-0396

Sec. 4: S/2
El Paso Natural Gas Co.
NM-01366

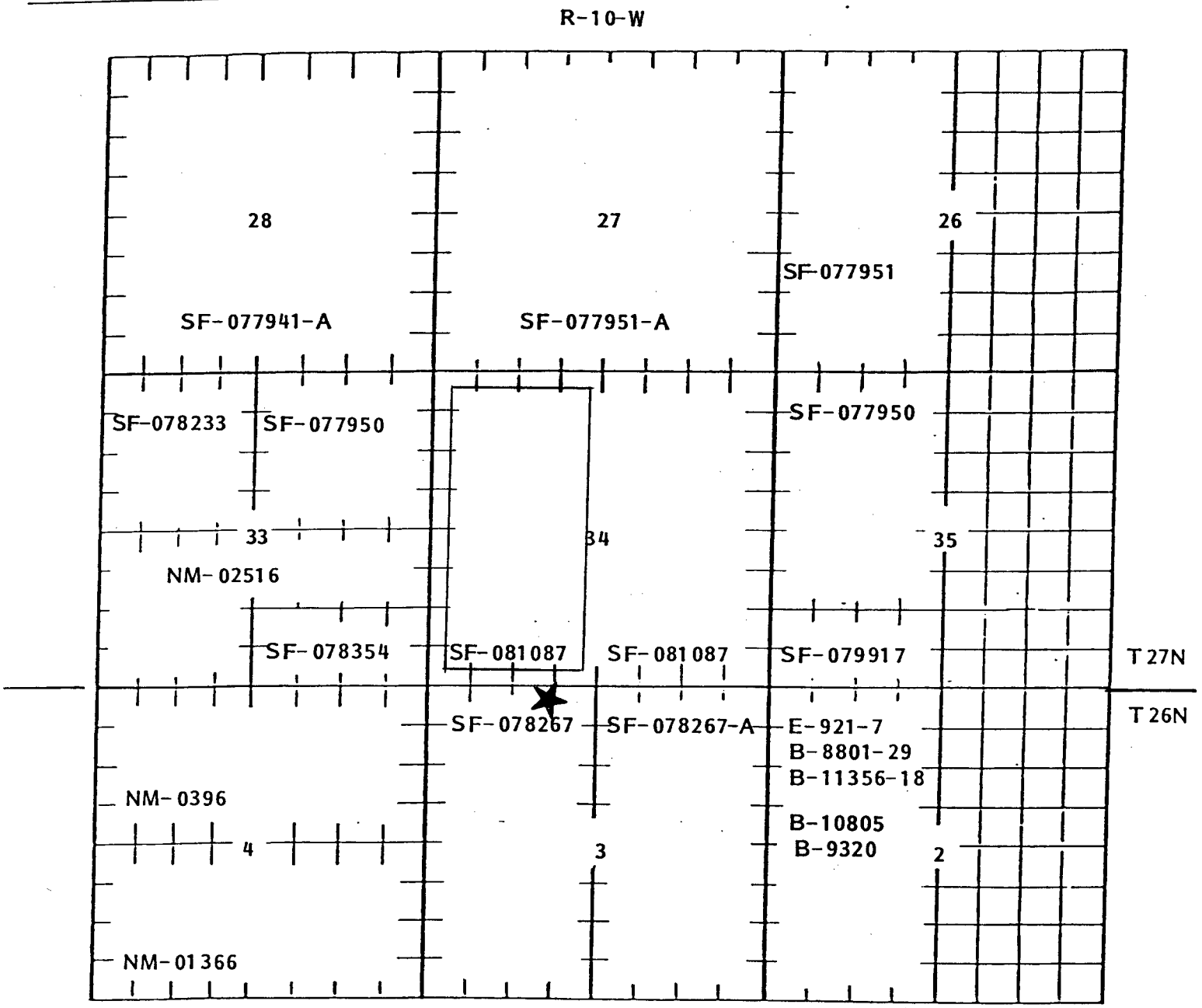
Sec. 2: SW/4
El Paso Natural Gas Co.
B-9320, B-10805, B-8801-29

TOWNSHIP 27N, 26N RANGE 10W COUNTY San Juan STATE New Mexico

REMARKS:

COMPANY

DUGAN PRODUCTION CORP.



Downhole Commingling Application
Dugan Production Corp.
McAdams No. 4
December 16, 1988
Attachment No. 3

dugan production corp.

December 16, 1988

Amoco Production Co.
2325 E. 30th St.
Farmington, NM 87401

Attention: R. J. Broussard

Re: Application for Downhole Commingling
DUGAN PRODUCTION CORP.
McAdams No. 4
SW/4 Sec. 34, T27N, R10W, NMPM
San Juan County, New Mexico

Dear Mr. Broussard,

Enclosed please find the following items with regard to the above referenced matter:

1. Application by Dugan Production Corp. for Downhole Commingling of the McAdams No. 4 well in San Juan County, New Mexico and

2. A copy of the cover letter to William Lemay, New Mexico Oil Conservation Division.

Please contact me should you have any questions.

Sincerely,

Barbara L. Williams
Engineer

BLW/BW/dhc/amoco

709 EAST MURRAY DRIVE • P. O. BOX 5820 • FARMINGTON, NEW MEXICO 87499-5820 • PHONE: (505) 325-1821

dp dugan production corp.

December 16, 1988

Bureau of Land Management
1235 La Plata Highway
Farmington, NM 87401

Attention: Ron Fellows

Re: Application for Downhole Commingling
DUGAN PRODUCTION CORP.
McAdams No. 4
SW/4 Sec. 34, T27N, R10W, NMPM
San Juan County, New Mexico

Dear Mr. Fellows,

Enclosed please find the following items with regard to the above referenced matter:

1. Application by Dugan Production Corp. for Downhole Commingling of the McAdams No. 4 well in San Juan County, New Mexico and

2. A copy of the cover letter to William Lemay, New Mexico Oil Conservation Division.

Please contact me should you have any questions.

Sincerely,

Barbara L. Williams

Barbara L. Williams
Engineer

BLW/BW/dhc/blm

709 EAST MURRAY DRIVE • P. O. BOX 5820 • FARMINGTON, NEW MEXICO 87499-5820 • PHONE: (505) 325-1821

dugan production corp.

December 16, 1988

Ft. Collins Consolidated Royalties, Inc.
P.O.Box 1363
Cheyenne, WY 82003

Re: Application for Downhole Commingling
DUGAN PRODUCTION CORP.
McAdams No. 4
SW/4 Sec. 34, T27N, R10W, NMPM
San Juan County, New Mexico

Dear sirs,

Enclosed please find the following items with regard to the above referenced matter:

1. Application by Dugan Production Corp. for Downhole Commingling of the McAdams No. 4 well in San Juan County, New Mexico and

2. A copy of the cover letter to William Lemay, New Mexico Oil Conservation Division.

Please contact me should you have any questions.

Sincerely,

Barbara L. Williams

Barbara L. Williams
Engineer

BLW/BW/dhc/ft-collin

709 EAST MURRAY DRIVE • P. O. BOX 5820 • FARMINGTON, NEW MEXICO 87499-5820 • PHONE: (505) 325-1821

dp dugan production corp.

December 16, 1988

El Paso Natural Gas
c/o Meridian Oil
P.O.Box 4289
Farmington, NM 87401

Re: Application for Downhole Commingling
DUGAN PRODUCTION CORP.
McAdams No. 4
SW/4 Sec. 34, T27N, R10W, NMPM
San Juan County, New Mexico

Dear Sirs:

Enclosed please find the following items with regard to the above referenced matter:

1. Application by Dugan Production Corp. for Downhole Commingling of the McAdams No. 4 well in San Juan County, New Mexico and

2. A copy of the cover letter to William Lemay, Director, New Mexico Oil Conservation Division.

Please contact me should you have any questions.

Sincerely,

Barbara L. Williams

Barbara L. Williams
Engineer

BLW/BW/dhc/meridian

709 EAST MURRAY DRIVE • P. O. BOX 5820 • FARMINGTON, NEW MEXICO 87499-5820 • PHONE: (505) 325-1821

WELL S T R		JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YR-PROD MP	ACCUM
AKAH NEZ CEVGNIAN				DEV	OM TO 5M										
WM. GRUENERWALD AND ASSOC., INC.					**********										
NAVAJO				N											
1H2323N2CW	OIL				587	2203	377							3167	3167
KERR-MCGEE CORPORATION					**********										
NAVAJO J				N											
1A2323N2CW	OIL							87	495	504	392	441	55	1974P	13983
	GAS							90	514	454	366	367	50	1871	
	WAT							75	650	2610	1108	741	136	5320	
ANGELS PEAK GALLUP				GP	6M TO 7M										
AMOCO PRODUCTION CO					**********										
JACK FROST B				F											
1P2727N1CW	OIL													T	3224
C A MCADAMS B				F											
1J2827N1CW	OIL													I	25907
2E2827N1CW	OIL													I	41060
COMPANY TOTAL	OIL														70191
DUGAN PRODUCTION CORPORATION					**********										
MCADAMS				F											
1F3427N1CW	OIL	44	39	26	37	48	37	30	33	28	57	42	43	444F	20273
	GAS	3437	4986	4262	2998	2916	5036	4400	5068	4800	4578	3201	4797	50479	
2P3427N1CW	OIL	52	70	82	129	118	91	105	87	69	129	57	22	1011F	23230
	GAS	11025	14141	12612	9570	9718	12413	12907	14304	13307	13512	9719	13811	147039	
3H3427N1CW	OIL	86	111	70	94	132	109	94	136	76	115	92	123	1218F	51089
	GAS	2166	3015	2170	1909	2199	3073	2770	3503	2877	2787	2062	3001	31532	
4N3427N10W	OIL													F	25219
	GAS		215	4114	2258	3147	3709	4189	4415	4676	4253	3004	4253	38233	
COMPANY TOTAL	OIL	182	220	158	260	298	237	229	256	173	301	191	188	2693	119811
	GAS	16628	22357	23158	16735	17980	24231	24266	27290	25660	25130	17986	25862	267283	
EL PASO NATURAL GAS COMPANY					**********										
HUERFANITO UNIT NP				UF											
60M 426N 9W	OIL													G	5458
HUERFANO UNIT				UF											
92F 726N 9W	OIL		35					18					60	113F	9763
	GAS	4227	4046	3204	2783	2408	3901	4974	4539	3837	1453	2814	6552	44738	
99C 226N10W	OIL	100	76	100	76	66	175	98	173	100	100	101	101	1354F	31353
	GAS	21529	23930	22210	16982	16536	23277	23148	26533	18649	19503	21501	22948	256748	
101F1927N1CW	OIL	100	94	59	133	84	74	98	74	100	75	75	100	1106F	21107
	GAS	5686	4305	5581	5776	6291	3457	6224	6419	6048	6029	4325	5879	66020	
103C 326N1CW	OIL		69		23		74				89	75	66	396F	16563
	GAS	1049	1016	950	647	659	1111	1149	774	714	2944	5530	8992	25535	
105P2927N10W	OIL	200	158	144	168	175	173	98	99	294	274	203	201	2187F	70225
	GAS	29003	22545	29243	21266	22775	11367	20683	20601	21597	22554	16696	22873	261203	
106J3327N10W	OIL	176	102	182	146	100	99	198	155	100	229	101	204	1792F	28805
	GAS	25779	22891	27370	22411	25314	13372	24194	25844	21903	22454	20441	27887	279860	
107E3527N1CW	OIL													F	77146
	GAS	632	1659	1605	1246	1198	113							6453	
108E 126N1CW	OIL	100	101	100	147	80	74	60	99	100	100	101	101	1163F	25784
	GAS	14386	16215	15142	11583	11277	14781	15646	16405	9683	15741	14921	15522	171302	
109I 226N10W	OIL		92		53	20		34	99	74	74	78	85	609F	18701
	GAS	8721	10747	6294	5674	4218	8929	8028	12792	8119	10766	10352	11604	106244	
113C3327N1CW	OIL		76		76			141		99	200	76	178	846F	15266
	GAS	25346	20129	26053	24300	26641	13742	24376	24361	24098	23236	16275	23684	272241	
16001726N 9W	OIL	100	242	178	231	153	226	175	159	177	234	192	179	2246F	2433
	GAS	34250	39388	38717	28447	37411	37616	37858	36893	34724	25118	33365	36404	420191	
HUERFANO UNIT	NP			UF											
111F2026N 9W	OIL		65		23			33			65			186F	3388
	GAS	4091	4420	4233	3059	4051	3319	4085	4255	3519	3127	3627	3867	45653	
116C1126N10W	OIL	23		15				14						52F	3510
	GAS	1297	1396	1608	801	853	1222	969	1321	1315	2269	1911	2554	17812	
HUERFANO UNIT	NP														
1101 326N1CW	OIL	53	52	37	50	33	54	49	61	27	--				21049
	GAS	1812	1842	1384	1313	1140	2004	1692	2021						
Y151C3526N1CW	OIL	146	99	53	134	43									1063
COMPANY TOTAL	OIL	998	1261	908	1260	754	947								351614
	GAS	177808	174529	183594	146288	160772	138211								
HUSKY OIL COMPANY OF DELAWARE					**********										
EVENSEN				F											
3G1927N1CW	OIL	139	127	103	122	162	115								16131
	GAS	6394	5042	5706	6675	6792	4917								
W. R. WEAVER					**********										
MCADAMS				F											
5A3427N10W	OIL PLUGGED AND ABANDONED 1961														3183
BISTI LOWER GALLUP				GP	OM TO 5M										
ATLANTIC RICHFIELD COMPANY					**********										
BITTONEY NEZ															
1G2325N11W	OIL	1385	1214	1098	749	1270	1308								131748
	GAS	288	243	220	150	254	262								
	WAT	14	12	11	7	13	13								
KI YAH DE TAH															
1E2425N11W	OIL	169	166	193	188	104	79								18015
	GAS	34	33	38	37	21	16								
	WAT	56	55	64	63	35	26								
COMPANY TOTAL	OIL	1554	1380	1291	937	1374	1387								149763
	GAS	322	276	258	187	275	278								
	WAT	70	67	75	70	48	39								
BENSON-MONTIN-GREER DRILLING CORPORATION					**********										
SCHWERDTFEGER				F											
1G1724N 9W	OIL PLUGGED AND ABANDONED 1969														4514
THE BRITISH AMERICAN OIL PRODUCING COMPANY					**********										
DOUTHIT B				F											
3K2926N13W	OIL PLUGGED AND ABANDONED 1966														1324
CLINTON OIL COMPANY					**********										
ARTHUR L DUFF USA															
1L 124N10W	OIL	734	552	459	502	523	555								764
	GAS	102	70	153	259	149	264								
DUGAN PRODUCTION CORPORATION					**********										
BEDFORD				F											
1E1525N11W	OIL		166	236	200	197	196	1			171	171	153	1977P	15335
	GAS		259	369	312	308	306	2	269	464	502	502	449	3985	
SOUTH HUERFANO FEDERAL				F											
1M1524N 9W	OIL	34	27	31	36	21	29	21	26	30	30	44	17	346F	6695
	GAS	2043	1318	2384	1653	1690	1434	2367	1686	2523	1931	1848	1334	22211	
LARGO B FEDERAL				F											
1A2224N 9W	OIL	81	75	82	70	78	69	64	54	56	72	45	61	807F	25182
	GAS	566	583	745	697	740	846	766	663	520	519	394	558	7597	
COMPANY TOTAL	OIL	115	268	349	306	296	294	242	252	244	273	260	231	3130	47212
	GAS	2609	2160	3458	2662	2738	2586	3378	2618	3507	2652	2744	2341	33793	
THOMAS A. DUGAN					**********										
SEARS ANC RCBUCK				N											
1A 524N10W	OIL								92	79	56	53	63	343F	970
	GAS		TSTM			TSTM			8	26	33	41	14	122	
EL PASO PRODUCTS COMPANY					**********										
KELLY STATE				S											
9A 225N13W	OIL PLUGGED AND ABANDONED 1967														19517
10G 225N13W	OIL PLUGGED AND ABANDONED 1967														5053
11I 225N13W	OIL PLUGGED AND ABANDONED 1956														829
COMPANY TOTAL	OIL														25399
BENJAMIN ELLENBOGEN					**********										
F R JACKSON				F											
1E1524N 9W	OIL	126		132	60	21			162	118			180	799P	11258
ELLIOTT OIL COMPANY					**********										
ELLIOTT C FEDERAL															
77N3425N1CW	OIL	683	635	633	618	665	565	558	548	479	558	567	445	6986P	92582
	GAS	822	340	580	450	387	718	897	639	674	608	462		6577	
	WAT	182	169	169	164	177	158	148	146	127	148	151	13	1752	

WELL S T R	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	YR-PROD MP	ACCUM
AKAH NEZ DEVONIAN			DEV		0M TO 5M									
MR. GRUENERWALD AND ASSOC., INC.														
NAVAJO			N											
1H2323N20W OIL PLUGGING APPROVED			1972											3167
KERR-MCGEE CORPORATION														
NAVAJO J			N											
1A2323N20W OIL			49										49	14032
PLUGGING APPROVED			1972											
ALAMO FARMINGTON			FAR		0M TO 5M									
EL PASO NATURAL GAS COMPANY														
RIDDLE			F											
4M 430N 9W OIL	142	87	115	105	96	14	112	79	87	104	106	101	1148F	12106
AMARILLO GALLUP			GP		5M TO 6M									
DUGAN PRODUCTION CORPORATION														
DOUTHIT FEDERAL			F											
1P3328N13W OIL	28	35	9	21	27	51	5	14	22	27	21	5	265P	43354
FULLERTON			F											
1F3428N13W OIL													P	3429
COMPANY TOTAL OIL	28	35	9	21	27	51	5	14	22	27	21	5	265	46783
ANGELS PEAK GALLUP			GP		6M TO 7M									
AMOCO PRODUCTION CO														
JACK FROST B			F											
1P2727N10W OIL													T	3224
C A MCADAMS B			F											
1J2827N10W OIL													T	25907
2E2827N10W OIL													T	41060
COMPANY TOTAL OIL														70191
DUGAN PRODUCTION CORPORATION														
MCADAMS			F											
1F3427N10W OIL	42	40	35	44	43	22	36	42	36	36	48	42	466F	20739
GAS	5253	4939	4291	3127	4139	4696	3184	4083	3118	4353	4721	4650	50540	
2P3427N10W OIL	9	67	116	114	101	98	67	63	104	89	53	38	919F	24149
GAS	13979	13747	13502	9964	13032	12639	9701	10033	8571	11583	12290	12460	141500	
3H3427N10W OIL	55	20	64	64	98	103	90	76	129	92	116	112	1049F	52138
GAS	2664	1000	2144	1591	2311	2777	2043	2111	1658	2408	2649	2531	25834	
4N3427N10W OIL													F	25219
GAS	1998												1998	
COMPANY TOTAL OIL	106	127	245	222	242	223	193	181	269	217	217	192	2434	122245
GAS	23893	19686	19937	14682	19482	20112	14925	16233	13297	18324	19660	19641	219872	
EL PASO NATURAL GAS COMPANY														
BALLARD			F											
1101S26N 9W OIL		56	47	70	58	37	45	66	440	24			843F	14292
GAS		54	45	67	56	35	43		499	396	262	309	1766	
HUERFANITO UNIT NP			UF											
60M 426N 9W OIL ZONE ABANDONED														5458
HUERFANO UNIT			UF											
92F 726N 9W OIL		49	24			86	36	14	19	76			304F	10067
GAS	6657	6855	4794	6286	5743	4784	4799	3948	375	5915	6128	5775	62059	
99C 226N10W OIL	101	101	135	74	74	98	99	122	194	85	87	76	1246F	32599
GAS	22445	16398	20740	19793	19077	15655	21312	14035	20381	20396	21221	19915	231368	
101F1927N10W OIL	106	100	100	61	74	98	91	85	85		176	74	1050F	22157
GAS	6140	5772	6175	4632	5820	6301	6879	6350	6362	4562	6144	6104	71241	
103C 326N10W OIL	89	89	59		74		98	64		76		50	510F	17073
GAS	9112	6781	8039	8338	7482	5164	6779	4252	4517	6521	7170	5887	80032	
105P2927N10W OIL	202	187	233	181	199	296	197	207	198	200	403	91	2684F	72909
GAS	21971	21422	23466	17718	20094	22536	23625	24013	24032	18364	24869	23811	265921	
106J3327N10W OIL	101	177	160	200	74	99	197	100	175	100	202	101	1626F	30431
GAS	24675	28612	27732	20195	22663	24653	26852	21603	24937	18628	24707	23651	288908	
107E3527N10W OIL													F	77146
108E 126N10W OIL	85	93	88	70	74	62	54	77	75	76	76	76	906F	26690
GAS	13004	10811	15418	12668	13579	11359	11809	9775	13386	12748	11407	11687	147651	
109I 226N10W OIL		71	76	85		98	39	22	99	76	81		647F	19348
GAS	12883	9347	12211	11783	10088	9843	8547	7967	9449	10696	11736	10607	125157	
113G3327N10W OIL		122	59	15	74	99	98	99	99	99	202	69	1035F	16301
GAS	20623	26047	25262	18464	20847	22043	24287	23061	22793	16794	22252	21694	264164	
138D2226N 9W OIL	66	22	39	34	26	20	18	58		55		68	406F	406
GAS		7236	7488	9765	10469	7914	10481	10348	10351	10386	7686	10801	102925	
16001726N 9W OIL	179	149	144	169	148	99	99	185	150	150	178	101	1701F	4134
GAS	36321	36273	26600	34701	34586	25902	33684	32102	24843	33335	33075	32183	383605	
HUERFANO UNIT NP			UF											
111F2026N 9W OIL		43		13		36							92F	3480
GAS	4192	3998	2874	3349	3998	3193	3468	3383	2525	3559	3462	3686	41787	
116C1126N10W OIL		42					42						84F	3594
GAS	2456	2112	2669	2313	2202	1571	1584	1138	1395	1122	1009	1955	21525	
HUERFANO UNIT NP														
1101 326N10W OIL	3												3F	21052
GAS	680	481	587	627	631	535	606	442	583	594	601	555	6922	
COMPANY TOTAL OIL	843	1301	1106	959	888	1092	1149	1189	1584	1317	1405	706	13137	377137
GAS	181159	182199	184090	170699	177335	161488	184755	162417	155525	164116	181729	178620	2095032	
HUSKY OIL COMPANY OF DELAWARE														
EVENSEN			F											
3G1927N10W OIL	173	145	113	105	78	63	104	151	194	200	165	90	1581=	17712
GAS	6063	4221	4412	3206	3038	2242	3551	5455	6394	4187	4502	3607	50825	
W. R. WEAVER														
MCADAMS			F											
5A3427N10W OIL PLUGGING APPROVED			1961											3183
BISTI LOWER GALLUP			GP		0M TO 5M									
ATLANTIC RICHFIELD COMPANY														
BITTONEY NEZ														
1G2325N11W OIL	767	1146	1251	898	1361	1482	1450	1243	1218	3		612	11461	133139
GAS	153	229	252	180	272	296	290	249	243			122	2283	
WAT	77	14	36	27	41	45	44	50	51				474	
KI YAH DE TAH														
1E2425N11W OIL	137	121	115	123	113	42	50	113	112	118	106	54	1218	10233
GAS	25	23	22	22	21	11	13	21	21	23	20	12	255	
WAT	45	40	33	45	35	13	14	38	35				301	
COMPANY TOTAL OIL	904	1267	1366	1021	1474	1524	1500	1356	1330	121	106	666	12679	143372
GAS	179	252	274	203	293	307	303	270	264	23	20	134	2538	
WAT	123	54	74	67	76	58	63	88	86				735	
JENSON-MONFISH-GREER DRILLING CORPORATION														
SCHWERDTFEGER			F											
1S1724N 9W OIL PLUGGING APPROVED			1969											1494
THE BRITISH AMERICAN OIL PRODUCING COMPANY														
DOUTHIT B			F											
2K2524N13W OIL PLUGGING APPROVED			1966											13324
CLINTON OIL COMPANY														
ARTHUR L. DUFF USA														
1L 1241N10W OIL	560	746	778	619	642	665	1054	920	1009	1323	1009	446	9471	95235
GAS	137	344	548	972	1009	1345	979	1136	1244	1119	1261	226	10020	
WAT						21	30		28	26	29	5	139	
OLD TRADING POST			N											
1P1026N14W OIL								172	144	148	140	143	7763	774
3J1026N14W OIL							431	220	287	355	274	244	1811P	1811
DUGAN PRODUCTION CORPORATION														
BEDFORD			F											
1E1325N11W OIL	138	120	136	146	155	146	126	149	141	144	140	134	1675P	17010
GAS	405	352	399	429	455	429	261	437	414	423	411	393	4808	
SOUTH HUERFANO FEDERAL			F											
1M1524N 9W OIL	41	40	45	35	37	27		4	3	3	7	7	229F	6924
GAS	2192	1729	2035	1740	2180	1705	305	336					12422	

ALLOCATION - MCADAMS #4

OIL

CUMULATIVE DAKOTA - 10,868 BBLS - 30%
CUMULATIVE GALLUP - 25,219 BBL 70%

GALLUP OIL PROD AT ABANDONMENT - 0 BBL
CURRENT DAKOTA OIL PROD - 0 BBL

ALLOCATION SHOULD BE DAKOTA - 30%
GALLUP - 70%

GAS

CUMULATIVE DAKOTA - 1,030,928 MCF - 24%
" " GALLUP - 3,273,449 MCF - 76%

GALLUP GAS PROD AT ABANDONMENT - 124 MCFD - 72%
CURRENT DAKOTA GAS PROD - 47 MCFD - 28%

AVERAGE - 24% + 28%/2 = 26% - DAKOTA
76% + 72%/2 = 74% - GALLUP