

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

SEP - 8 1987
September 3, 1987
CONSERVATION DIVISION
SANTA FE

New Mexico Oil Conservation Commission
Attention: David Catanach
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Catanach:

Marathon Oil Company respectfully requests an exception to Statewide Rule 303-A. Administrative approval is requested to surface commingle oil produced from the Denton (Wolfcamp) Pool with oil produced from the Denton (Devonian) Pool.

The API gravity of the Wolfcamp and Devonian crude oil is 41 degrees and 44 degrees respectively. Since the crude oil from these reservoirs are already commingled in the sales line, the commercial value of the crude oil will remain the same.

Attached is a schematic diagram of the proposed installation, and a plat showing all wells on the lease and the pool from which each lease is producing.

If you have any questions concerning this application, please contact the undersigned at (915)-682-1626.

Yours very truly,

Allen S. Wilson

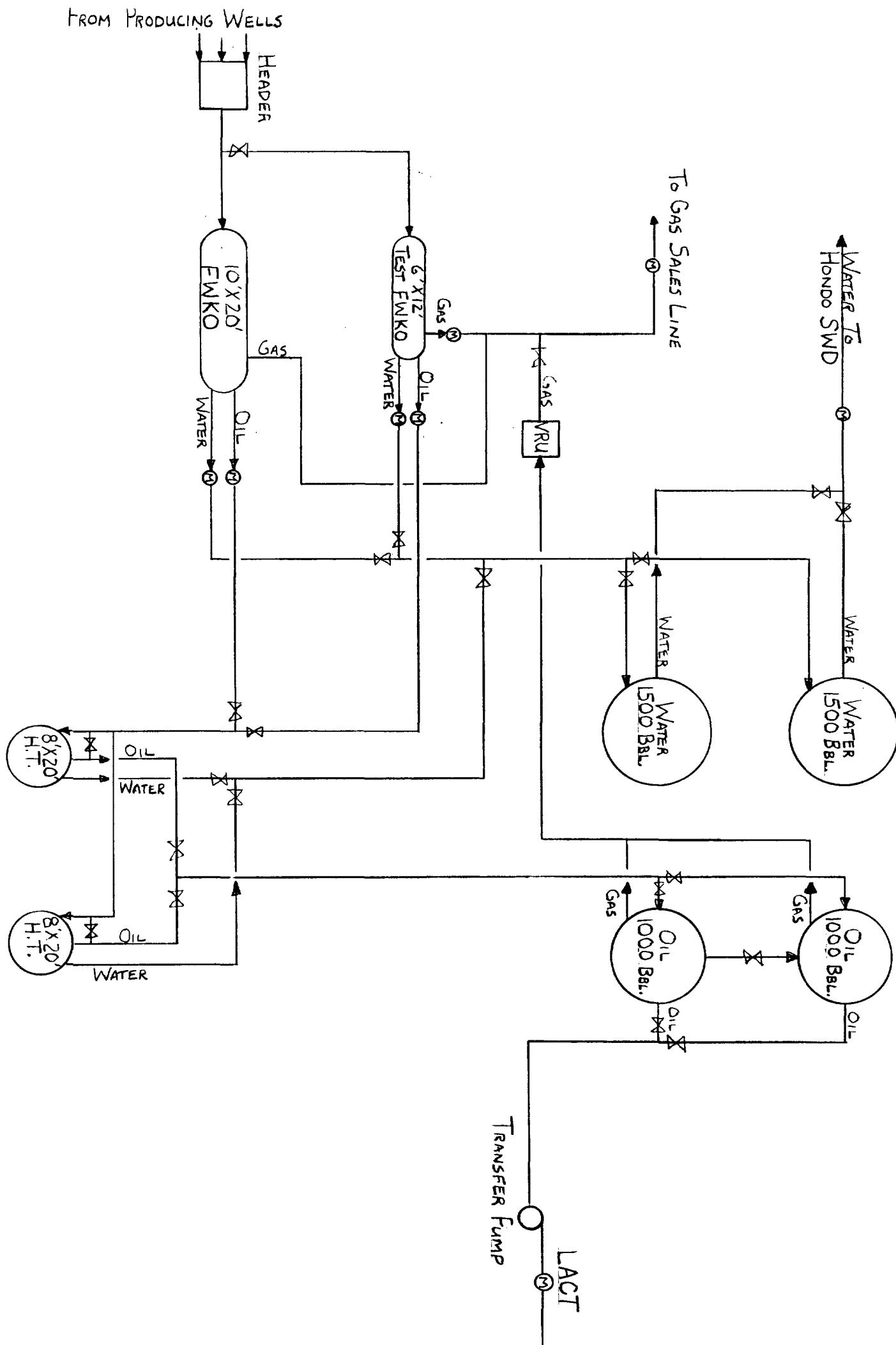
Allen S. Wilson
Operations Engineer

Sheet II, PS, 37 East

ASW/jf

file: 001-87

DENTON FIELD
FLOW DIAGRAM - PROPOSED PRODUCTION FACILITY



R-37-E

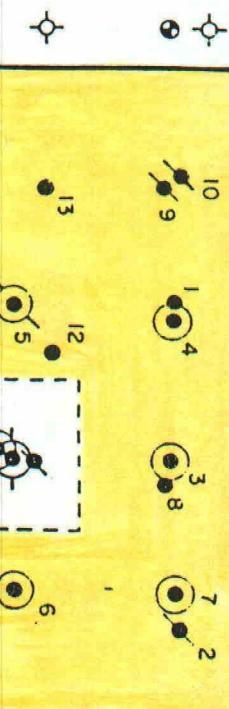
PRODUCTION, U.S.
MID-CONTINENT REGION
DENTON FIELD
LEA COUNTY, NEW MEXICO



0 1/2 1
MILES

LEGEND

- WOLFCAMP PRODUCER
- DEVONIAN PRODUCER



J.M. DENTON

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CONTINUED DENTON DEVONIAN

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WELL S T R	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC 1986 PROD MP	ACCUM
4M 215537E OIL	PLUGGING APPROVED 1980												1050045
7N 215537E OIL	1553	1549	1753	1637	1445	1445	2416	1712	1860	2034	2030	21214P	334272
GAS	1597	1631	1895	1470	1492	11410	11360	11873	11710	1362	1347	19514	
9N 215537E OIL	1624	1624	10957	12077	10818	11410	11360	11873	11710	1362	1017R	1117.8	
LEASE TOTAL OIL	3457	3058	3211	3193	3486	3102	2850	5617	4008	3808	6155	3167	13697
GAS	2661	2350	2771	3064	2936	2788	2555	3603	3364	2898	2696	2292	4176867
WAT	35880	33956	35650	37037	35202	33922	33560	39306	36510	30954	35005	34964	421952
LEE WHITMAN A	162614537E OIL	LAST PROD. DATE 02/79											\$ 1031974
LEE WHITMAN B	162614537E OIL	LAST PROD. PRIOR TO 6/73											449000
LEE WHITMAN B	702314537E OIL	329	229	266	278	306	287	298	192	284	158	130	2725
GAS	689	270	367	407	401	409	459	371	5070	4425	2616	3887	189594
WAT	6138	4250	4270	4750	4553	4408	4800	3767				491301	
COMPANY TOTAL OIL	4785	4195	5707	6163	6006	5182	5817	6919	5185	5732	5824	5135	66705 13517305
GAS	3978	3496	5705	6168	6045	5186	5820	6914	5188	5733	5826	5135	66778 916826
WAT	48305	46106	80011	75641	74008	68487	71960	74010	71414	69840	69065	67979	
ATLANTIC RICHFIELD COMPANY	*****												
B C DICKINSON A	1M3414537E OIL	RECOMPLETED TO DENTON WOLFCAMP											38366
B C DICKINSON B	213414537E OIL	PLUGGING APPROVED 1972											291366
B C DICKINSON C	3M215537E OIL	PLUGGING APPROVED 1967											81152
B C DICKINSON D	1N3214537E OIL	PLUGGING APPROVED 1972											647670
B C DICKINSON E	2N3214537E OIL	PLUGGING APPROVED 1972											374954
JONES FEDERAL	6K3514537E OIL	PLUGGING APPROVED 1972											35597
JONES FEDERAL	1M3514537E OIL	PLUGGING APPROVED 1973											867635
W T MANN A	2P3614537E OIL	RECOMPLETED TO DENTON WOLFCAMP											141234
STATE A	103614537E OIL	RECOMPLETED TO DENTON WOLFCAMP											402369
LEE WHITMAN A	2B2614537E OIL	RECOMPLETED TO DENTON WOLFCAMP											779944
LEE WHITMAN B	5A2614537E OIL	RECOMPLETED TO DENTON WOLFCAMP											388240
LEE WHITMAN C	8P2314537E OIL	RECOMPLETED TO DENTON WOLFCAMP											107565
COMPANY TOTAL OIL													5838251
CHEVRON U.S.A. INC.	*****												
L R CHAMBERLAIN A	181415537E OIL	124	662	621	517	585	582	599	659	669	693	604	612
GAS	79	933	480	229	261	465	774	386	453	524	537	537	5339
WAT	1660	9421	10083	8029	9485	9122	8632	9154	9174	9487	9262	9486	101564
LEAGUE STATE	1J 215537E OIL	LAST PROD. DATE 05/78											1135546
20 215537E OIL	819	753	933	878	788	878	850	865	913	947	864	10574	1135546
GAS	1004	437	701	899	856	8155	882	700	676	646	631	631	10574
WAT	5704	5071	5911	6701	5754	5656	5515	5534	5598	5797	5610	5235	67491
3I 215537E OIL	922	660	755	661	642	500	524	538	539	579	601	608	770845
GAS	164	352	601	773	897	480	744	596	595	584	550	575	7061
WAT	939	840	682	604	596	532	558	561	561	589	573	549	7609
4P 215537E OIL	2130	1892	2152	2013	2274	2022	2049	2036	2122	2244	2229	2229	25341P 2046257
GAS	8280	7164	8072	7126	89580	8976	8698	8466	8456	8230	8280	8280	98321
LEASE TOTAL OIL	3987	3298	3893	3567	3734	3330	3489	3437	3410	3683	3822	3702	43413 6184810
GAS	2698	1761	3056	2855	3573	2130	3317	3156	2933	2398	2390	2156	32323
WAT	15314	13075	14665	13425	14930	15161	15171	14557	14205	14742	14451	14105	174022
W A SIMPSON ET AL	2P 315537E OIL	120	575	684	572	608	631	723	754	801	763	726	658
GAS	4100	1349	1417	1255	1474	1462	1229	21140	21140	10787	311	570	13554
WAT	20724	24714	21124	21124	24714	21124	21124	21124	21124	21124	21124	21124	21124
COMPANY TOTAL OIL	4221	4535	5198	4656	4287	4549	4811	4450	4890	5137	5157	4940	57458
GAS	2794	3743	4953	4337	5297	4187	5320	4754	4974	5163	5417	4986	51615
WAT	21074	42720	49004	43367	49250	48186	48128	48065	48065	48065	48065	48065	48065
DINERO OPERATING CO.	DENTON	101115537E OIL	1155	1813	1719	1556	1095	680	1360	1124	821	527	1374
GAS	1390	1189	1005	1267	1381	1381	1381	1381	1381	210	417	232	1374
WAT													107016
CHAMBERLAIN	2C1415537E OIL	RECOMPLETED TO DENTON WOLFCAMP											125317
3F1415537E OIL	RECOMPLETED TO DENTON WOLFCAMP												125317
W A SIMPSON ET AL	1I 315537E OIL	PLUGGING APPROVED 1971											97856
W A SIMPSON ET B	3J 315537E OIL	PLUGGING APPROVED 1959											97292
COMPANY TOTAL OIL													1211747
LYNX PETROLEUM CONSULTANTS, INC.	*****												
MCCLURE B	141415537E OIL	RECOMPLETED TO DENTON WOLFCAMP											531789
DEAN A	1D3515536E OIL	RECOMPLETED TO DEAN PERMO PENN											1526
J M DENON	3J 11115537E OIL	105	1323	1170	1193	2111	2514	2124	2075	1993	2186	1517	234492 2351125
GAS	2584	1312	1196	1151	1763	2122	2122	2122	2122	2122	2122	2122	
WAT	10538	27928	21227	20047	24380	34201	15594	27681	25121	25811	21169	21169	21169
4K1115537E OIL	19	645	489	463	704	966	527	461	551	411	411	411	174711
GAS	2056	33	632	262	202	518	301	344	223	330	322	311	311
WAT	292	9892	7658	7704	11000	13424	12755	10787	10787	11000	11000	11000	105120
SN1115537E OIL	224	837	490	332	586	707	538	661	449	437	359	51805	1142277
GAS	1556	857	427	236	702	612	561	366	433	525	501	501	
WAT	5075	14394	11101	11266	16184	19546	18587	15905	15439	17142	17297	17141	
7T1115537E OIL	66	645	572	497	706	674	576	569	621	650	6070P	1925078	
GAS	166	772	373	284	632	460	525	403	491	572	5901	5901	
WAT	2220	20087	15261	15556	22212	26228	25186	21668	21146	21252	21252	21252	
9L1115537E OIL	14	1012	3760	3021	2782	4105	4523	4175	3573	3451	3801	37012	185727
GAS	2056	3539	5637	2461	1859	4615	3784	4165	2732	3140	355P	3763	41223
WAT	269	17828	72291	55255	54673	77776	94111	89162	76181	72333	82100	751547	
COMPANY TOTAL OIL	14	1012	2769	3021	2782	4105	4523	4175	3573	3451	3801	3763	41223
GAS	2056	72291	55255	54673	77776	94111	89162	76181	72333	82100	82100	751547	
WAT	269	17828	72291	55255	54673	77776	94111	89162	76181	72333	82100	82100	
MCALISTER FUEL COMPANY	J M DENTON A	101115537E OIL	RECOMPLETED TO DENTON WOLFCAMP										1002159
Mobil Oil Corporation	*****												
J C MAXWELL	1P2714537E OIL	PLUGGING APPROVED 1970											444021
3I21714537E OIL	PLUGGING APPROVED 1970												321166
5H2714537E OIL	PLUGGING APPROVED 1970												331101
TAZ2714537E OIL	RECOMPLETED TO DENTON WOLFCAMP												130P639
COMPANY TOTAL OIL													
MOBIL PRODUCING TEXAS AND NEW MEXICO	DENTON NORTH WOLFCAMP UNIT TRACT 16	*****											
DENTON NORTH WOLFCAMP UNIT TRACT 16	RECOMPLETED TO DENTON WOLFCAMP												841732
TX3614537E OIL	ZONE ABANDONED												796292
DENTON NORTH WOLFCAMP UNIT TRACT 16	4F2514537E OIL	ZONE ABANDONED											676834
T D POPE	103514537E OIL	282	281	276	163	338	456	259	354	472	392	235	294
GAS	292	375	422	229	261	619	360	586	631	531	363	363	36160
WAT	3558	3557	4162	2316	4059	4145	3820	4419	7654	7857	4410		

WELL #	TYPE	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	PROD	MP	ACCUM
M A SIMPSON ET AL 3J 315537E OIL	PLUGGING APPROVED	1961														13400
COMPANY TOTAL OIL																299105
LYNX PETROLEUM CONSULTANTS, INC.																
MCCLURE C 1A1415537L OIL		326	180	124	517	178	187	322	110	103	326	125	125	1890P	4282	
WAT																
J M DENTON COMPANY																
1K1115537E OIL		162	79	194	1437	101										1973S
GAS		2386	153	190	1271	608										1406
211115537E OIL		162	74	197	1276	1994	1288									25866
GAS		15	12	19	147	149	211	82								576617
8J1115537E OIL		4200	702	3974	3102	3115	4456									404501
GAS																
9L1115537E OIL																35293
10P1115537E OIL																T
GAS																4015
11P1115537E OIL																225282
GAS																T
12N1115537E OIL		552	404	751	571	498	703	847	808	692	707	870	629	6132P	927546	
GAS		19	23	22	302	98	99	230	930	1242	794	275	222	3949		
13M1115537E OIL		486	1009	428	407	6216	7695	6224	5457	6708	4851	61546	1044U	265802		
GAS		161	58	196	144	529	527	233								
WAT		3307	1272	3867	3086	3131	4456	1733								20852
COMPANY TOTAL OIL		1487	101	1483	2516	972	1106	1912	808	851	931	1093	790	13220	3153670	
GAS		1487	4255	16521	30750	12834	15128	9338	7273	9562	9709	11428	8265	8700		
WAT															149720	
MCALESTER FUEL COMPANY																
J M DENTON 4	PLUGGING APPROVED	1966														7620
PAI H MCCLURE D	PLUGGING APPROVED	1959														47342
COMPANY TOTAL OIL																54962
MOBIL OIL CORPORATION																
DENTON NORTH WILDCAMP UNIT TRACT 2																
11F3514537E OIL	PLUGGING APPROVED	1977														17877
DENTON NORTH WILDCAMP UNIT TRACT 2																146616
273115537E OIL	PLUGGING APPROVED	1977														18173
1C2514537E OIL	PLUGGING APPROVED	1977														20221
2J2514537E OIL	PLUGGING APPROVED	1977														38065
3G2115537E OIL	PLUGGING APPROVED	1977														240952
COMPANY TOTAL OIL																
MOBIL PRODUCING TEXAS AND NEW MEXICO																
DENTON NORTH WILDCAMP UNIT TRACT 1																
2P3115537E OIL	LAST PROD. PRICH TU 6/73															T
3M3115537E OIL	PLUGGING APPROVED 1982															463214
4P3415537E OIL		458	117	1192	1602	1455	1693	2258	2328	1972	2383	1736	10933P	574388		
GAS		33	92	265	313	397	378	510	400	386	576	243	4130			
WAT		4207	310	1308	8683	7117	5678	5696	6131	5940	4703	5295	4180	66685		
LEASE TOTAL																1049888
J1L115537E OIL		545	458	1171	1192	1445	1893	2253	2328	1972	2283	1736	18933			
GAS		132	92	265	313	397	378	510	400	386	576	243	4130			
WAT		4207	310	1308	8683	7117	5678	5696	6131	5940	4703	5295	4180	66685		
DENTON NORTH WILDCAMP UNIT TRACT 1																
1H3415537E OIL	INJECTION WELL															T
313415537E OIL		111	1004	1104	938	1151	1246	1224	1123	1166	1095	912	1098	13177P	134533	
GAS		246	202	254	247	326	225	199	358	214	150	166	2912			
WAT		3479	3103	4078	3599	4056	3464	3269	2767	2959	3051	2887	3410	39962		
LEASE TOTAL																659014
OIL		1111	1004	1109	938	1151	1246	1224	1123	1166	1095	912	1098	13177		
GAS		246	202	254	247	326	225	199	358	214	150	166	2912			
WAT		3479	3103	4078	3599	4056	3464	3269	2767	2959	3051	2887	3410	39962		
DENTON NORTH WILDCAMP UNIT TRACT 4																
1D3514537E OIL		343	214	294	307	306	235	236	498	428	380	378	280	3899P	696007	
GAS		76	67	81	76	61	51	80	132	62	42	853				
WAT		1271	1001	1116	1105	1147	1041	986	1221	1308	1346	1175	974	13291		
DENTON NORTH WILDCAMP UNIT TRACT 5																
8L3514537E OIL	LAST PROD. PRICH TU 6/73															T
GAS		103	84	58	76	56	49	40	32	38	38	38	663			
WAT		1271	1133	1283	1134	1343	1347	1395	1329	1282	1356	1362	1311	15456		
9C3514537E OIL		250	258	295	283	277	315	308	354	375	278	312	549	3854P	122903	
GAS																
WAT		1302	1216	1310	1260	1302	1540	1512	1404	1434	1149	846	1243	15518		
12E3514537E OIL		332	264	330	314	275	305	321	273	259	273	273	326	3629P	77712	
GAS		73	53	76	95	79	72	66	57	85	201	250	490	800		
LEASE TOTAL																584991
OIL		1049	939	877	935	815	776	855	841	732	818	1079	10512			
GAS		231	189	202	245	203	173	152	154	143	134	163	2296			
WAT		235	203	275	2566	2748	3037	3049	2878	2687	2714	2458	2767	32931		
DENTON NORTH WILDCAMP UNIT TRACT 6																
2D3514537E OIL	LAST PROD. DATE 11/13															T
8M2614537E OIL	PLRPC DATE 04/74															138669
1P3514537E OIL		972	813	879	807	1098	1323	1226	663	1070	1010	912	10833P	730329		
GAS		192	164	202	212	272	346	346	486	1209	166	147	2316			
WAT		1567	1494	1479	1290	1707	1698	1794	1062	1615	1728	1740	16935			
1A2614537E OIL	LAST PROD. DATE 07/75															T
2013514537E OIL		225	197	174	221	215	199	315	282	182	222	195	319	2746P	10665	
GAS		50	40	40	58	53	52	68	50	43	32	48	590			
WAT		188	186	115	150	161	120	46	96	100	130	246	89	1587P		
2283514537E OIL		606	628	171	665	656	692	492	646	604	690	690	690	358525		
GAS		5202	4522	5043	4846	5099	4971	4805	3628	7932	4836	4500	4650	60040		
WAT		1372	732	866	882	840	840	808	980	903	1035	1085	1085	10881		
2812614537E OIL	LAST PROD. DATE 04/74															T
2943514537E OIL		604	442	678	666	659	661	494	956	583	742	580	668	7733P	514240	
GAS																
WAT		134	89	156	175	163	173	173	107	169	145	95	101	1686		
30H2614537E OIL		2100	1774	2461	2187	2084	2020	2178	2642	2207	2451	1998	2400	26502		
GAS		52	428	731	598	663	611	610	508	334	178	260	191	1426P		
WAT		131	86	168	157	164	160	120	90	103	129	128	128	1286		
312614537E OIL		6460	5552	5950	4971	6118	5663	5206	5008	4453	2106	1896	1323	54696		
GAS		3294	3265	3324	3048	3418	3609									