

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 19, 2003

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
2003 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 2003 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

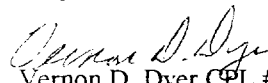
In this regard, we are enclosing a current unit map (which is unchanged from last year's map) showing all existing wells. Also included is production data for 2002, prepared by Jen Atkinson, Production Analyst.

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and one is a Wolfcamp producer (#1). All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996 (see enclosed list of Unit wells).

Last year HEYCO commenced a study of the Bone Spring sands and carbonates in the Young Deep Unit and, at this time, HEYCO is still in the process of researching and evaluating these zones. We are hopeful that our modeling efforts will result in additional areas to drill new wells in the Young Deep Unit, and give us insight into possible remedial treatments to existing producing wells.

Based on the information submitted herewith, HEYCO respectfully requests the Bureau of Land Management approve this 2003 Plan of Development and Operation. We will be glad to supply further information if such is required.

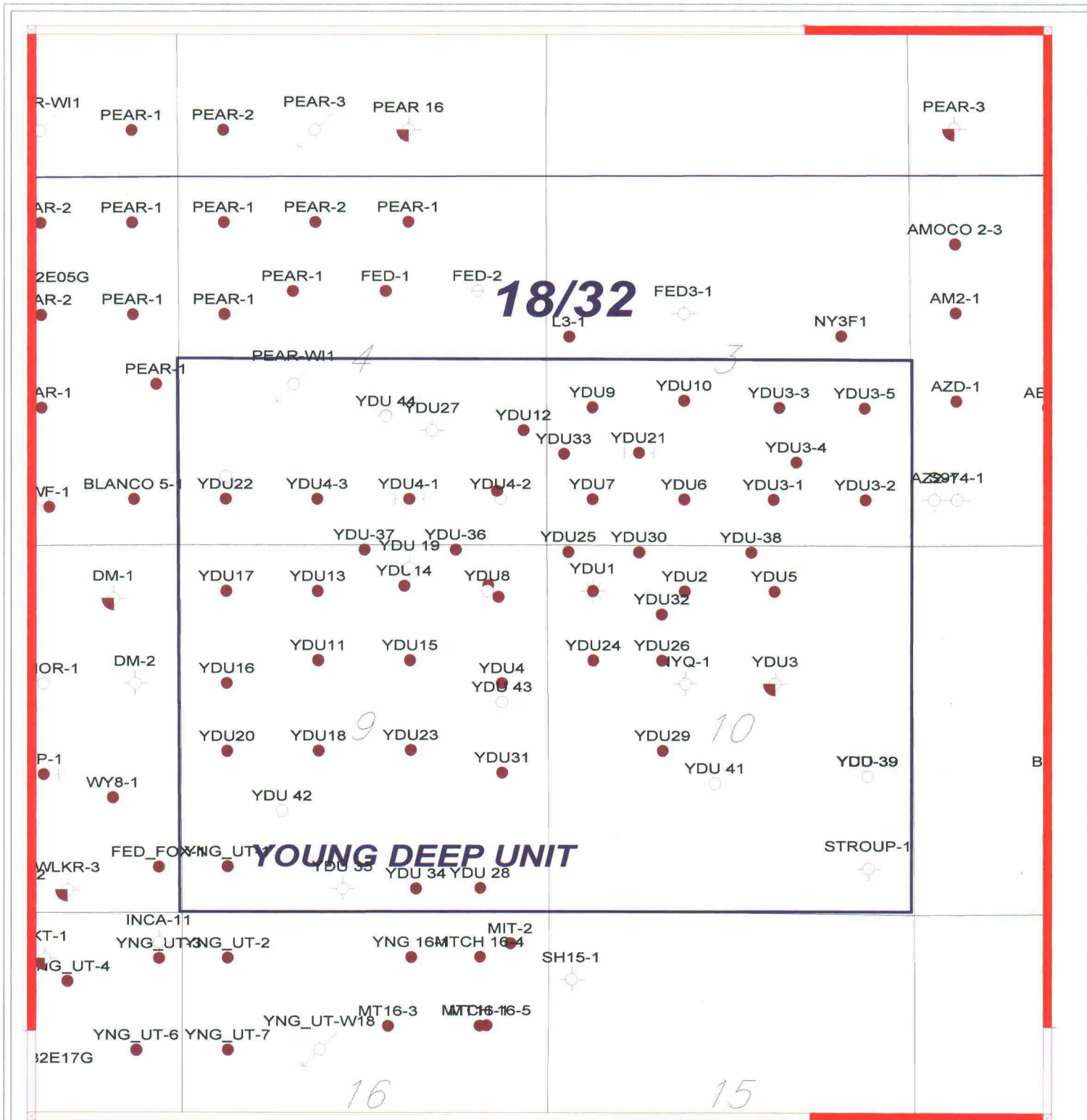
Respectfully submitted,


Vernon D. Dyer CPL #3174
Land Manager

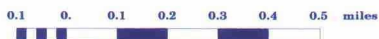
LC/dlm
Enclosures

Ydupod2003.doc Landydu=3

xc: ✓ Oil Conservation Division (w/encl.)
1220 S. St. Francis Dr.
Santa Fe, New Mexico 87505
Attn: Roy E. Johnson, Sr. Petroleum Geologist



Scale 1:24000.



HARVEY E. YATES COMPANY

YOUNG DEEP UNIT
T-18-S, R-32-E
LEA COUNTY, NEW MEXICO

Ramon Reyes

2/20/2003

Scale 1:24000.

so_hsydu_base.pdf

YOUNG DEEP UNIT

Water PRODUCTION FOR 2002

TOTAL BY

	Jan-02	Feb-02	Mar-02	Apr-02	May-02	Jun-02	Jul-02	Aug-02	Sep-02	Oct-02	Nov-02	Dec-02	WELL
YDU #01	217	270	304	176	160	140	276	226	172	268	255	274	2,737
YDU #04	1368	1004	245	0	0	0	0	0	0	703	1476	789	6,686
YDU #06	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #07	243	20	0	0	4	3	3	32	3	179	195	270	962
YDU #08	970	830	2523	2638	1491	1326	1279	1382	1307	0	0	0	13,746
YDU #09	41	48	135	282	0	7	23	26	24	1236	1464	1737	6,022
YDU #10	0	0	0	0	9	6	7	6	8	368	390	639	1,323
YDU #11	49	63	67	113	135	137	102	97	135	0	0	0	888
YDU #12	126	136	98	86	44	62	67	36	6	164	75	69	946
YDU #13	42	27	167	249	299	304	227	216	298	0	0	0	1,828
YDU #15	14	44	83	160	180	183	136	129	179	0	0	0	1,088
YDU #17	63	40	50	76	90	0	68	66	90	0	0	0	541
YDU #18	27	36	27	36	75	12	24	21	21	28	90	30	428
YDU #20	109	108	103	84	113	77	78	70	30	48	79	77	976
YDU #21	1198	1341	37	492	1198	1063	1027	1111	1050	0	0	0	8,617
YDU #22	70	44	50	88	105	106	79	76	105	0	0	0	722
YDU #23	0	0	0	0	0	0	0	0	0	0	1	0	1
YDU #24	32	108	32	27	39	13	13	16	37	17	23	16	373
YDU #25	0	16	1	4	0	7	0	0	0	0	0	0	27
YDU #26	0	0	8	17	3	2	2	3	2	0	0	0	37
YDU #28	690	680	618	639	764	680	534	626	607	642	714	621	7,314
YDU #29	30	30	39	12	87	33	27	39	103	16	36	21	472
YDU #30	12	0	0	0	33	0	0	0	0	0	0	0	46
YDU #31	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #32	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #33	11	6	1	0	0	0	7	6	1	1	8	10	49
YDU #34	768	764	781	790	881	806	868	910	1029	873	1051	814	10,336
YDU #36	0	0	0	16	15	12	3	18	15	12	21	9	120
YDU #37	15	16	12	0	0	0	0	0	0	0	0	0	42
YDU #38	6	2	6	6	3	34	7	2	6	4	5	2	83
YD 3#02	0	0	0	0	1297	3678	4149	4166	3733	3727	1922	2121	24,783
YD 3#05	23	13	23	44	470	646	494	648	459	491	271	280	3,761
YD 4#02	7	3	8	0	0	0	0	0	0	0	0	0	18
YD 4#03	51	6	12	16	60	16	6	48	6	67	15	9	300
TOTAL	6,182	5,642	5,430	5,837	7,556	9,260	9,506	9,768	9,426	8,713	8,091	7,678	93,068
BY MONTH													93,068

- Young Deep Unit #30
- Young Deep Unit #31
- Young Deep Unit #32
- Young Deep Unit #33
- Young Deep Unit #36
- Young Deep Unit #37
- Young Deep Unit #38
- Young Deep 3 Fed #1 - WW
- Young Deep 3 Fed #2
- Young Deep 3 Fed #4
- Young Deep 3 Fed #5
- Young Deep 4 Fed #2
- Young Deep 4 Fed #3

Water Injection wells:	Young Deep Unit #5 - WW
	Young Deep 3 #1 - WW
	Young Deep Unit #16 - WW
Wells deepened, plugged, or recompleted in 2002	None
Delaware producers	Young Deep Unit #28
	Young Deep Unit #34
Wolfcamp producers	Young Deep Unit #1
Bone Springs Producers	Young Deep Unit #2
	Young Deep Unit #4
	Young Deep Unit #5 - WW
	Young Deep Unit #6
	Young Deep Unit #7
	Young Deep Unit #8
	Young Deep Unit #9
	Young Deep Unit #10
	Young Deep Unit #11
	Young Deep Unit #12
	Young Deep Unit #13
	Young Deep Unit #14
	Young Deep Unit #15
	Young Deep Unit #16 - WW
	Young Deep Unit #17
	Young Deep Unit #18
	Young Deep Unit #20
	Young Deep Unit #21
	Young Deep Unit #22
	Young Deep Unit #23
	Young Deep Unit #24
	Young Deep Unit #25
	Young Deep Unit #26
	Young Deep Unit #29
	Young Deep Unit #30
	Young Deep Unit #31
	Young Deep Unit #32
	Young Deep Unit #33
	Young Deep Unit #36
	Young Deep Unit #37
	Young Deep Unit #38
	Young Deep 3 Fed #1 - WW
	Young Deep 3 Fed #2
	Young Deep 3 Fed #4
	Young Deep 3 Fed #5
	Young Deep 4 Fed #2
	Young Deep 4 Fed #3

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ROSWELL, NEW MEXICO 88202-1933

February 5, 2002

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
2002 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 2002 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

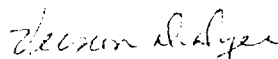
In this regard, we are enclosing a current unit map (which is unchanged from last year's map) showing all existing wells. Also included is production data for 2002, prepared under the supervision of Steven M. Yates, Vice President.

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996 (see enclosed list of Unit wells).

HEYCO is involved in a study of the sands and carbonates in the Young Deep Unit and anticipates proposing the reworking of three existing wells to the partners in 2002 for the improvement of production from the Unit. At this time the location, objective or depth have not been determined or approved by management.

Based on the information submitted herewith, HEYCO respectfully requests the Bureau of Land Management approve this 2002 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,

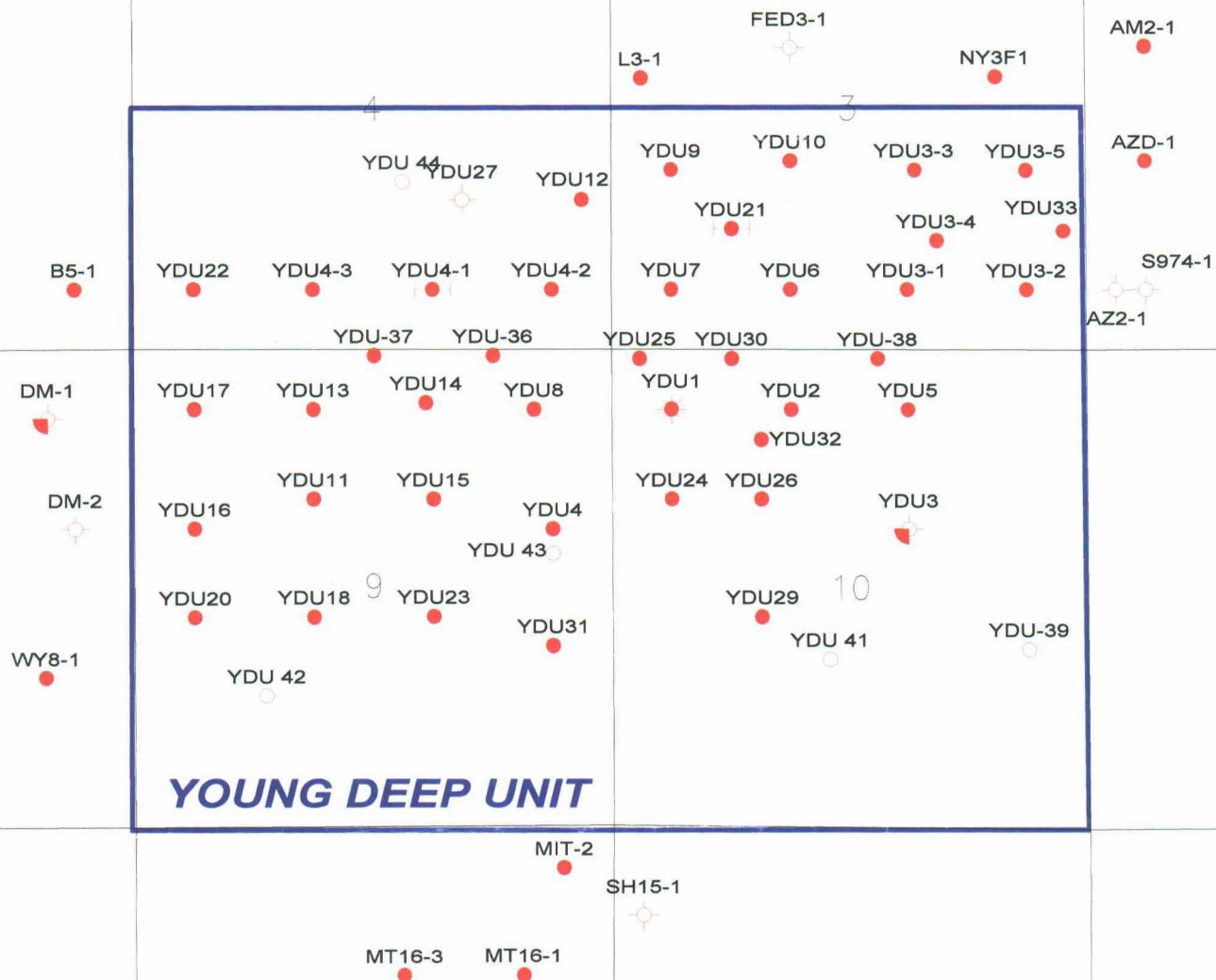

Vernon D. Dyer CPL #3174
Land Manager

VDD:SMY/dlm
Enclosures

Ydupod2002.doc Land:ydu=3

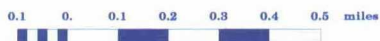
xc: ☒ Oil Conservation Division (w/encl.)
2040 S. Pacheco
Santa Fe, New Mexico 87505
Attn: Roy E. Johnson, Sr. Petroleum Geologist

18/32



YOUNG DEEP UNIT

Scale 1:24000.



HARVEY E. YATES COMPANY

YOUNG DEEP UNIT
T-18-S, R-32-E
LEA COUNTY, NEW MEXICO

Ramon Reyes

2/5/2002

Scale 1:24000.

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YOUNG DEEP UNIT

OIL PRODUCTION FOR 2001

	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	
YDU #01	1524	1668	1706	1668	1534	1514	1434	1518	1233	1590	1251	1307	17,793
YDU #04	87	81	142	106	99	110	100	167	137	142	162	117	1,439
YDU #06	142	132	216	138	140	185	186	180	182	173	178	284	2,106
YDU #07	32	28	44	81	73	67	72	80	26	28	29	27	575
YDU #08	0	0	0	0	0	0	492	473	363	485	352	359	2,494
YDU #09	0	0	0	0	0	42	115	115	77	88	97	92	626
YDU #10	11	8	15	25	24	25	24	20	48	49	55	61	356
YDU #11	760	715	295	384	371	281	333	454	393	302	353	664	5,195
YDU #12	632	706	675	682	746	788	698	701	719	708	728	733	8,490
YDU #13	216	204	354	263	231	289	203	277	213	268	253	182	2,964
YDU #15	187	178	307	228	214	251	109	89	81	84	159	116	2,004
YDU #17	216	204	34	139	177	208	186	258	317	237	278	271	2,524
YDU #18	143	122	137	136	132	117	135	182	115	128	130	135	1,563
YDU #20	401	339	338	270	311	243	378	311	283	308	287	305	3,775
YDU #21	388	360	178	214	218	216	146	115	96	88	97	134	2,250
YDU #22	58	39	94	123	115	77	291	207	180	207	242	115	1,748
YDU #23	242	227	244	145	139	146	195	181	193	214	292	282	2,512
YDU #24	286	284	286	236	292	250	265	257	236	250	249	268	3,139
YDU #25	322	309	257	271	283	222	279	271	199	220	226	281	3,140
YDU #26	522	484	302	307	335	304	292	252	369	341	349	331	4,188
YDU #28	214	176	166	181	217	211	192	182	176	180	168	168	2,241
YDU #29	276	197	247	243	251	241	239	247	240	242	237	61	2,721
YDU #30	160	153	272	420	507	344	294	437	322	355	325	352	3,941
YDU #31	163	144	155	166	158	126	152	147	136	160	157	148	1,795
YDU #32	116	185	297	162	168	182	222	174	509	464	380	409	3,268
YDU #33	140	134	168	162	168	181	168	182	170	143	142	168	1,936
YDU #34	223	231	262	220	238	226	228	226	216	220	217	216	2,725
YDU #36	427	414	347	288	280	238	263	240	258	388	310	188	3,620
YDU #37	256	248	355	314	305	278	266	262	282	435	339	115	3,476
YDU #38	640	601	594	632	536	611	535	487	440	618	465	163	6,030
YD 3#02	0	0	0	0	0	0	0	0	0	0	0	0	-
YD 3#05	356	337	199	223	256	255	257	262	309	282	269	364	3,399
YD 4#02	165	88	381	304	309	273	251	203	303	314	345	357	3,293
YD 4#03	373	306	285	324	322	318	294	289	275	289	299	274	3,658
TOTAL													
BY MONTH	9,678	9,195	9,362	8,903	9,149	8,688	9,327	9,398	9,098	9,884	9,420	8,882	110,974

Gas PRODUCTION FOR 2001

	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01	
YDU #01	5163	4483	4936	4731	4755	4728	4485	4673	4164	4300	3891	3925	54,105
YDU #04	619	606	681	696	556	235	227	291	306	302	563	584	6,566
YDU #06	671	680	1893	1627	1525	1669	1510	1684	1789	1721	1569	1801	17,769
YDU #07	274	229	324	887	701	683	718	733	131	163	144	148	6,106
YDU #08	0	0	0	0	0	0	797	938	874	837	638	726	4,807
YDU #09	0	0	0	0	0	201	560	682	187	260	228	242	2,360
YDU #10	257	216	305	398	381	406	0	0	130	161	143	147	2,629
YDU #11	1254	1207	1133	1160	1084	1303	1412	1671	1326	1673	1256	761	16,030
YDU #12	1917	1673	1884	1862	2100	2174	2040	2086	2121	2040	2090	2227	24,614
YDU #13	634	610	697	606	533	780	871	870	1020	968	772	801	9,246
YDU #16	831	799	913	798	746	896	470	166	163	161	515	534	7,080
YDU #17	801	770	530	686	746	886	958	1067	979	988	772	801	9,972
YDU #18	228	214	264	266	244	263	279	261	228	236	219	204	2,986
YDU #20	539	487	579	612	540	699	628	669	599	801	533	842	6,818
YDU #21	2199	1833	1551	1076	1073	1104	999	410	493	627	481	494	12,339
YDU #22	619	426	681	624	583	441	847	884	898	646	515	684	7,717
YDU #23	579	639	604	636	481	410	471	632	525	837	602	697	6,413
YDU #24	750	679	793	782	873	863	832	824	780	768	751	773	9,468
YDU #26	1496	1339	1548	1676	1711	1813	1587	1611	1737	3229	2973	3068	23,687
YDU #28	3001	2638	1482	1426	1525	1134	1092	1163	1271	1360	1108	1178	18,367
YDU #28	351	327	332	349	426	489	464	334	360	332	289	290	4,343
YDU #28	390	326	314	409	394	418	450	464	405	392	347	341	4,840
YDU #30	3589	3214	3717	4022	4108	3872	3809	3986	4168	3266	2996	3093	43,710
YDU #31	250	228	261	260	234	247	260	266	239	269	260	263	3,016
YDU #32	2018	1808	2090	2262	2311	2177	2143	2174	2344	2633	2423	2501	26,984
YDU #33	2945	2637	3049	3300	3371	3177	3126	3172	3419	2274	2092	2160	34,722
YDU #34	509	613	591	616	473	629	497	601	409	406	347	310	6,600
YDU #36	1562	1463	1609	1616	1563	1626	1487	1464	1413	1482	1301	1271	17,646
YDU #37	1975	1849	2034	1916	1975	1928	1879	1837	1785	2102	1845	1806	22,929
YDU #38	5532	6068	5097	6018	4916	4666	5043	4682	4231	4446	3728	4197	66,604
YD #302	0	0	0	0	0	0	0	0	0	0	0	0	-
YD #306	874	730	699	623	588	627	552	646	602	610	375	446	7,174
YD #402	1771	889	1926	2279	2275	1786	1661	1639	2022	2423	2209	2161	23,031
YD #403	1846	1660	1756	1793	1857	1846	1870	1879	1778	1747	1666	1678	21,376
TOTAL	45,444	40,400	44,273	44,384	44,648	43,723	44,024	43,763	42,896	43,297	39,641	40,626	617,019
BY MONTH													617,019

Water PRODUCTION FOR 2001

84,270
84,270

Water Injection wells:	Young Deep Unit #5 - WW Young Deep 3 #1 - WW Young Deep Unit #16 - WW
Wells deepened, plugged, or recompleted in 2001?	None
Delaware producers	Young Deep Unit #28 Young Deep Unit #34
Wolfcamp producers	Young Deep Unit #1
Bone Springs Producers	Young Deep Unit #2 Young Deep Unit #4 Young Deep Unit #5 - WW Young Deep Unit #6 Young Deep Unit #7 Young Deep Unit #8 Young Deep Unit #9 Young Deep Unit #10 Young Deep Unit #11 Young Deep Unit #12 Young Deep Unit #13 Young Deep Unit #14 Young Deep Unit #15 Young Deep Unit #16 - WW Young Deep Unit #17 Young Deep Unit #18 Young Deep Unit #20 Young Deep Unit #21 Young Deep Unit #22 Young Deep Unit #23 Young Deep Unit #24 Young Deep Unit #25 Young Deep Unit #26 Young Deep Unit #29 Young Deep Unit #30 Young Deep Unit #31 Young Deep Unit #32 Young Deep Unit #33 Young Deep Unit #36 Young Deep Unit #37 Young Deep Unit #38 Young Deep 3 Fed #1 - WW Young Deep 3 Fed #2 Young Deep 3 Fed #4 Young Deep 3 Fed #5 Young Deep 4 Fed #2 Young Deep 4 Fed #3

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 23, 2001

APR 6 2001

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
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In this regard, we are enclosing a current unit map (which is unchanged from last year's map) showing all existing wells. Also included is production data for 2000, prepared by Ray F. Nokes, Production Manager/Engineer.

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996.

HEYCO is involved in a continuing study of the sands and carbonates in the Young Deep Unit and anticipates proposing to the partners the drilling of two wells in 2001. At this time the location, objective or depth have not been determined by management.

Based on the information submitted herewith, HEYCO respectfully requests the Bureau of Land Management approve this 2001 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted.

Vernon D. Dyer
Vernon D. Dyer CPL #3174
Land Manager

VDD:SMY/dlm
Enclosures

Ydupod2001.doc:Land:Ydu#3

xc: ✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Roy E. Johnson, Sr. Petroleum Geologist

YOUNG DEEP UNIT

Water PRODUCTION FOR 2000

TOTAL BY

WELL

	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	
YDU #01	778	727	350	166	112	163	121	166	184	86	52	419	3,303
YDU #04	465	496	965	0	0	305	343	422	132	126	140	162	3,546
YDU #06	15	26	10	0	0	0	0	0	0	0	0	0	61
YDU #07	5	34	5	124	128	1	7	6	4	0	0	0	313
YDU #08	673	1160	469	330	352	193	20	3	0	0	0	0	3,200
YDU #09	5	23	3	91	93	0	0	0	0	0	0	0	216
YDU #10	19	35	10	60	72	0	0	0	6	0	0	0	202
YDU #11	0	0	0	0	0	0	0	0	487	462	521	660	2,030
YDU #12	35	262	352	280	266	210	266	241	208	140	236	200	2,686
YDU #13	0	0	0	0	0	305	344	422	132	126	140	162	1,620
YDU #16	54	68	113	0	0	0	0	0	0	0	0	0	226
YDU #17	49	18	26	160	98	63	103	106	396	376	421	465	2,260
YDU #18	51	27	96	30	36	47	87	27	33	46	36	30	646
YDU #20	99	90	145	93	124	123	164	230	195	187	151	179	1,780
YDU #21	3046	4903	2136	1007	1075	859	1367	2407	2703	3388	2566	3091	28,560
YDU #22	110	134	252	1001	651	399	172	211	66	60	70	76	3,202
YDU #23	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #24	9	51	51	43	40	36	47	32	37	34	32	26	438
YDU #25	0	0	0	0	0	2	20	18	6	0	7	15	68
YDU #26	0	692	280	131	140	87	0	0	0	0	0	0	1,330
YDU #28	511	690	584	483	1657	885	560	745	582	729	634	570	8,530
YDU #29	18	21	24	63	33	21	63	33	21	36	64	48	446
YDU #30	0	23	19	0	0	0	2	2	0	0	0	0	46
YDU #31	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #32	0	0	0	4	16	0	0	0	3	12	6	15	66
YDU #33	11	13	20	4	21	11	0	0	0	0	0	0	80
YDU #34	814	932	861	826	982	818	828	884	884	968	735	768	10,300
YDU #36	0	0	0	0	0	0	0	0	0	0	0	0	-
YDU #37	9	12	0	18	15	18	21	9	21	18	18	15	174
YDU #38	3	6	5	6	26	5	2	3	2	2	2	2	64
YD 3#02	0	0	0	0	115	0	0	0	0	0	0	0	115
YD 3#06	388	2195	1860	270	161	203	472	224	199	660	925	2167	9,714
YD 4#02	93	160	65	272	289	0	398	311	0	0	148	178	1,914
YD 4#03	63	15	15	55	3	45	3	3	48	18	12	6	286
TOTAL	7,323	12,703	8,718	6,497	6,506	4,799	5,410	6,493	6,349	7,470	6,916	9,114	87,297
BY MONTH	7,323	12,703	8,718	6,497	6,506	4,799	5,410	6,493	6,349	7,470	6,916	9,114	87,297

Gas PRODUCTION FOR 2000

WELL

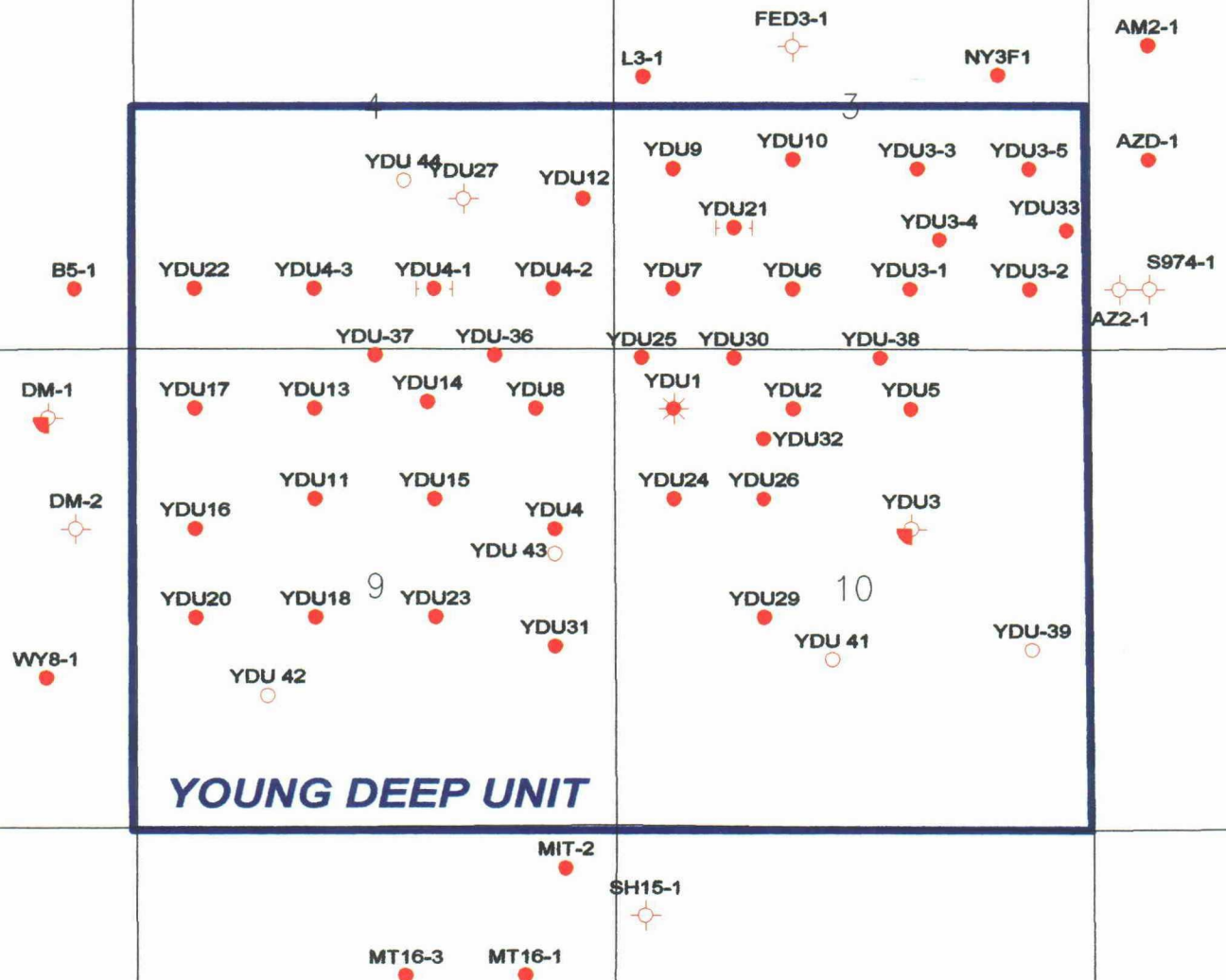
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OIL PRODUCTION FOR 2000

WELL

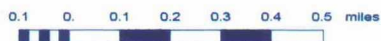
	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00	Sep-00	Oct-00	Nov-00	Dec-00	WELL
YDU #01	2530	1341	1715	1904	1995	1688	1657	2064	1118	1749	1848	1925	21,534
YDU #04	164	301	379	327	314	185	167	188	82	76	82	85	2,349
YDU #06	247	189	188	239	217	219	111	338	275	219	302	328	2,872
YDU #07	66	206	81	141	128	45	78	75	46	48	70	63	1,047
YDU #08	584	447	445	388	364	331	486	93	0	0	0	0	3,138
YDU #09													
YDU #10	256	488	173	126	114	0	0	0	0	0	0	0	1,167
YDU #11	64	62	36	48	51	9	14	16	46	16	23	21	396
YDU #11	453	285	269	343	329	269	100	283	722	666	718	761	5,188
YDU #12	980	881	940	776	827	768	994	766	647	385	740	727	9,451
YDU #13	394	266	234	226	215	247	223	261	110	187	204	213	2,759
YDU #16													
YDU #16	147	288	338	187	180	202	279	313	69	64	68	71	2,178
YDU #17	272	177	162	165	149	177	232	219	206	187	204	213	2,353
YDU #18	154	136	139	139	149	161	148	134	127	143	142	127	1,688
YDU #20	365	321	351	324	323	311	432	486	428	444	399	397	4,580
YDU #21	630	373	401	326	306	150	83	219	273	402	264	287	3,714
YDU #22													
YDU #22	93	193	236	271	260	294	112	126	55	48	54	67	1,798
YDU #23	92	73	163	298	152	384	296	282	256	282	238	251	2,737
YDU #24	205	285	348	317	294	294	280	303	275	301	296	301	3,499
YDU #25	301	285	344	533	336	231	477	461	478	373	354	309	4,482
YDU #26	234	363	361	363	331	738	272	321	219	310	358	389	4,249
YDU #28													
YDU #28	238	161	249	205	113	160	195	228	205	229	208	204	2,385
YDU #29	254	248	261	217	298	197	227	294	260	264	285	222	3,027
YDU #30	355	242	282	219	277	330	288	278	307	360	337	295	3,560
YDU #31	161	148	163	147	161	144	178	164	132	162	155	146	1,851
YDU #32	219	290	349	163	188	226	164	158	126	179	156	141	2,351
YDU #33													
YDU #33	203	63	116	163	188	448	240	231	134	128	128	112	2,134
YDU #34	299	289	291	284	275	246	208	284	271	256	255	270	3,228
YDU #36	533	466	447	424	309	623	353	474	392	456	467	454	5,297
YDU #37	320	280	269	254	186	303	205	285	235	273	281	273	3,164
YDU #38	736	643	650	614	797	803	759	730	677	662	652	670	8,393
YDU #38													
YDU #402	0	0	0	0	67	0	0	0	0	0	0	0	67
YD 3#05	490	426	398	503	249	322	375	355	431	376	335	381	4,641
YD 4#02	433	331	329	389	364	374	400	472	333	395	416	450	4,686
YD 4#03	384	379	349	374	345	356	312	311	316	328	310	325	4,089
TOTAL													
BY MONTH	12,866	10,895	11,466	11,356	10,851	11,115	10,346	11,191	9,263	9,916	10,349	10,458	130,041

18/32



YOUNG DEEP UNIT

Scale 1:24000.



HARVEY E. YATES COMPANY

YOUNG DEEP UNIT
T-18-S, R-32-E
LEA COUNTY, NEW MEXICO

Ramon Reyes

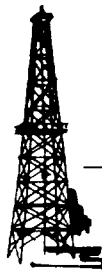
2/23/2001

Scale 1:24000

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HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

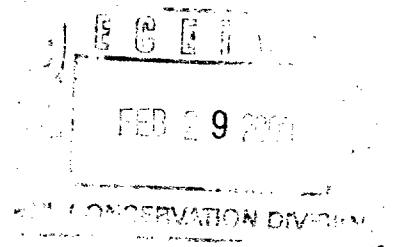
ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 28, 2000



New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Roy E. Johnson
Sr. Petroleum Geologist

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
2000 Plan of Development and
Operation

Ladies & Gentlemen:

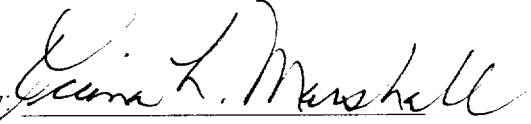
Enclosed is a copy of the 2000 Plan of Development and Operation for Harvey E. Yates Company's (HEYCO's) Young Deep Unit in Lea County, New Mexico. This covers the Bone Spring, Delaware and Wolfcamp Participating Areas.

This has been submitted for approval to the Bureau of Land Management. Approval from the Commissioner of Public Lands is not required, as there are no State of New Mexico lands in this unit.

HEYCO respectfully requests the New Mexico Oil Conservation Division's approval of this Plan of Development.

Very truly yours,

HARVEY E. YATES COMPANY

By: 
Diana L. Marshall

/dlm

Enclosures

ydupodocd.doc/Land:ydu#3

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 28, 2000

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
2000 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 2000 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

In this regard, we are enclosing a current unit map (which is unchanged from last year's map) showing all existing wells. Also included is production data for 1999 and production history for the unit, prepared by Ray F. Nokes, Production Manager/Engineer.

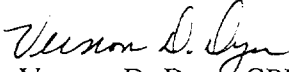
As a result of the continued economic downturn in the oil and gas industry in 1999, and because a number of our partners were (and are) reorganizing their financial and physical structure, which prevented us from getting adequate partner approval, we did not drill any Young Deep Unit wells in 1999.

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996.

HEYCO is involved in a continuing study of the sands and carbonates in the Young Deep Unit and anticipates drilling one well in 2000. At this time the location, objective or depth have not been determined by management.

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this 2000 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,


Vernon D. Dyer, CPL #3174
Land Manager

VDD:SMY/dlm
Enclosures

ydupod99.doc\A:ydu#3

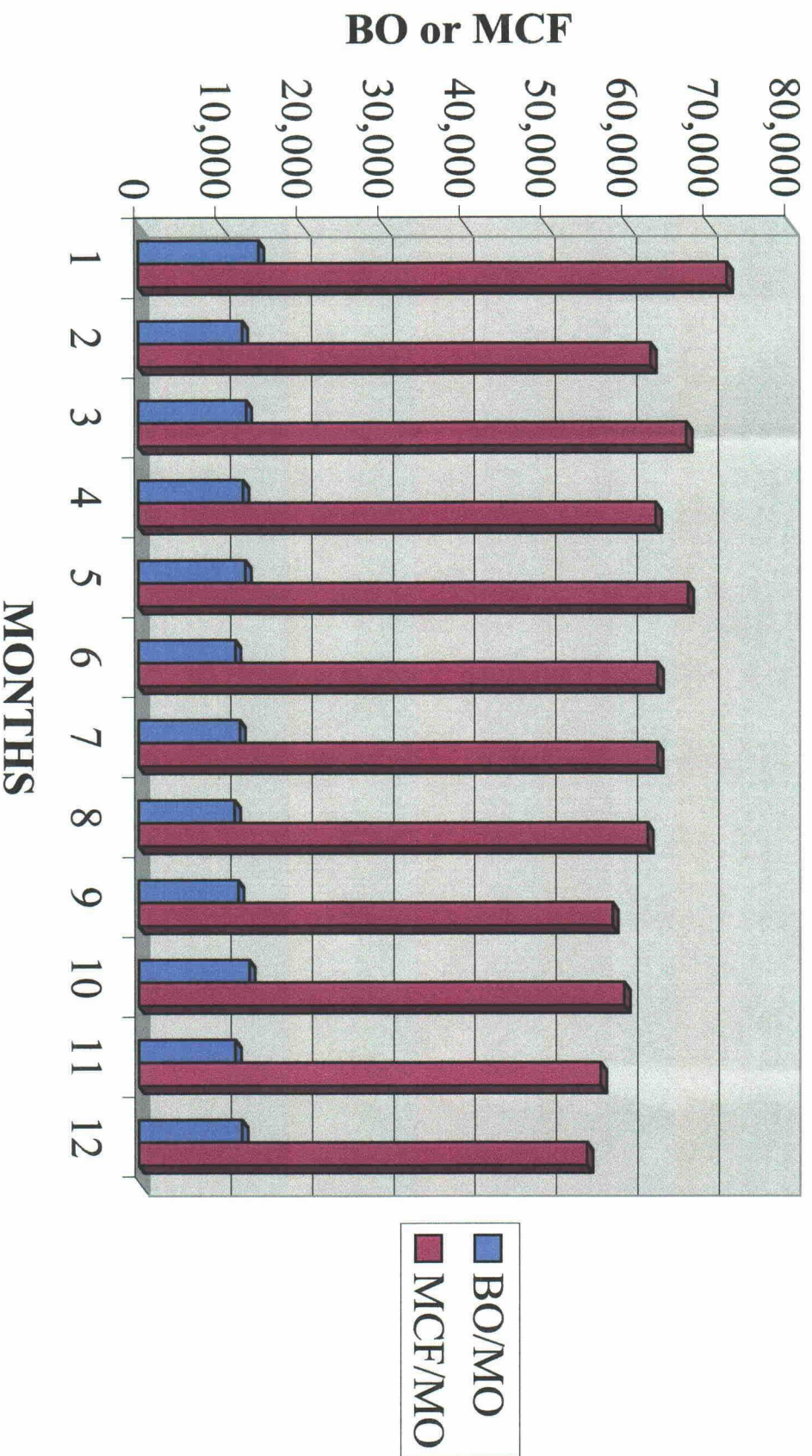
xc: ✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Roy E. Johnson, Sr. Petroleum Geologist

[illegible]

YOUNG DEEP UNIT
T-18-S, R-32-E
LEA COUNTY, NEW MEXICO

Ramon Reyes		1/31/00
	Scale 1:24000.	so.leo@ydu.bose.gp

YOUNG DEEP UNIT PRODUCTION FOR 1999



HEYCO-MONTHLY WELL PRODUCTION HISTORY

2/8/00

BO					LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM	
NO.	WELL NAME	CUMS	MCF	CUMS	BW	1-99	2-99	3-99	4-99	5-99	6-99	7-99	8-99	9-99	10-99	11-99	12-99	13-99	14-99	15-99	16-99	
1.	YOUNG DEEP UNIT #1	614,853	665,237	194,506	2,421	2,112	2,039	2,116													25,284	
2.	YOUNG DEEP UNIT #2	124,632	127,670	191,416																		
3.	YOUNG DEEP UNIT #3	58,481	102,019	2,800	85	172	101	117	117	111	163	135	119	121	140	120	226				1,610	
4.	YOUNG DEEP UNIT #4	83,657	86,236	276,190																		
5.	YOUNG DEEP UNIT #5	370,012	548,153	1,930,361	578	495	467	397	324	306	322	309	234	295	227	335	4,289					
6.	YOUNG DEEP UNIT #6	321,636	425,046	1,366,339	126	98	143	69	91	77	78	75	94	57	46	90	1,044					
7.	YOUNG DEEP UNIT #7	89,374	93,718	36,710																		
8.	YOUNG DEEP UNIT #9	115,490	251,998	26,593	147	163	156	240	258	264	269	226	227	277	171	308	2,706					
9.	YOUNG DEEP UNIT #10	104,394	212,885	18,899	59	114	52	57	427	403	430	435	429	445	425	413	5,245					
10.	YOUNG DEEP UNIT #11	402,960	625,692	40,010	493	430	464	451	427	403	430	435	429	445	425	413	5,245					
11.	YOUNG DEEP UNIT #12	258,219	352,159	1,471,646	1,047	694	880	848	962	828	1,010	932	911	997	886	869	10,864					
12.	YOUNG DEEP UNIT #13	181,265	304,741	16,268	401	348	376	366	359	327	349	354	344	344	309		4,244					
13.	YOUNG DEEP UNIT #14	116,185	227,927	34,471																		
14.	YOUNG DEEP UNIT #15	72,650	129,351	6,886	185	153	111	128	91	116	105	106	139	125	107	187	1,553					
15.	YOUNG DEEP UNIT #16	42,077	74,358	3,428																		
16.	YOUNG DEEP UNIT #17	294,232	482,192	18,711	401	348	376	366	414	377	403	408	402	418	397	386	4,696					
17.	YOUNG DEEP UNIT #18	75,917	59,014	11,585	150	129	156	133	156	117	157	167	151	145	160	140	1,761					
18.	YOUNG DEEP UNIT #20	130,507	239,551	19,615	330	327	341	338	389	387	353	376	337	360	332	432	4,457					
19.	YOUNG DEEP UNIT #21	71,249	273,308	10,796	76	63	60	66	54	43	43	63	653	852	545	580	3,098					
20.	YOUNG DEEP UNIT #22	100,052	169,789	15,388	153	148	112	99	118	73	87	110	89	78	99	145	1,512					
21.	YOUNG DEEP UNIT #23	88,321	121,985	14,490	290	258	256	266	256	236	248	173	265	258	160	50	2,716					
22.	YOUNG DEEP UNIT #24	140,002	391	548,705	391	331	330	371	358	313	351	317	317	313	293	296	4,041					
23.	YOUNG DEEP UNIT #25	68,807	388,866	497	494	408	417	447	520	358	384	377	374	387	369	277	4,812					
24.	YOUNG DEEP UNIT #26	140,274	333,732	12,603	620	531	622	529	412	389	410	393	298	376	289	454	5,323					
25.	YOUNG DEEP UNIT #28	57,287	56,000	70,542	280	266	252	282	220	258	259	249	241	241	230	239	3,017					
26.	YOUNG DEEP UNIT #29	41,221	75,665	7,649	246	205	259	314	304	273	281	272	273	273	269	269	3,226					
27.	YOUNG DEEP UNIT #30	41,202	326,718	419	423	394	394	432	433	335	365	448	413	357	370	353	337					
28.	YOUNG DEEP UNIT #31	28,209	51,038	6,827	167	115	165	160	168	149	170	184	165	155	173	168	1,940					
29.	YOUNG DEEP UNIT #32	29,416	169,412	686	411	378	325	326	434	243	278	256	253	263	250	234	3,651					
30.	YOUNG DEEP UNIT #33	35,224	251,140	1,324	411	297	325	326	341	246	281	259	283	293	279	295	3,636					
31.	YOUNG DEEP UNIT #34	92,972	137,483	104,909	389	355	344	342	339	314	314	339	311	317	294	296	3,954					
32.	YOUNG DEEP UNIT #36	27,178	111,962	1,147	602	519	584	520	486	562	485	468	473	515	414	500	6,128					
33.	YOUNG DEEP UNIT #37	20,008	137,488	1,329	444	383	430	383	358	414	358	345	345	348	380	300	4,495					
34.	YOUNG DEEP UNIT #38	29,334	99,362	368	1,131	990	1,004	955	886	848	848	801	766	853	718		10,518					
35.	YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535																		
36.	YOUNG DEEP 3 FEDERAL #2	33,062	51,215	150,509																		
37.	YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139																		
38.	YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666																		
39.	YOUNG DEEP 3 FEDERAL #5	183,521	342,135	22,960	523	392	405	352	367	481	381	375		346	375	359	4,703					
40.	YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573																		
41.	YOUNG DEEP 4 FEDERAL #2	635,308	847,082	2,087,230	851	729	792	674	736	672	734	702	532	671	516	738	8,347					
42.	YOUNG DEEP 4 FEDERAL #3	191,787	457,945	2,443	415	410	391	362	425	436	389	406	343	417	392	375	4,761					
OIL					MCF	WATER	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	BOPM	
6,492,599					10,685,885	11,093,168	14,790	12,785	13,227	12,833	13,101	11,873	12,421	11,784	12,213	13,560	11,829	12,644	153,030			

HEYCO-MONTHLY WELL PRODUCTION HISTORY

2/8/00

MCF		LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM
NO.	WELL NAME	CUMS	CUMS	CUMS	1-99	2-99	3-99	4-99	5-99	6-99	7-99	8-99	9-99	10-99	11-99	12-99	13-99	14-99	15-99	SUM
1.	YOUNG DEEP UNIT #1	614,853	663,237	194,506	7,196	6,209	6,343	5,684	7,457	7,434	6,658	5,709	5,336	6,005	7,158	7,078	78,267	199	199	199
2.	YOUNG DEEP UNIT #2	124,632	127,670	19,416																
3.	YOUNG DEEP UNIT #3	58,481	102,019	2,800	125	197	124	142	126	271	224	193	192	222	189	341	2,346			
4.	YOUNG DEEP UNIT #4	83,657	86,236	276,190																
5.	YOUNG DEEP UNIT #5	370,012	548,153	1,930,361	4,134	3,645	3,801	3,575	3,906	3,777	3,695	3,687	2,865	2,700	2,540	2,433	40,708			
6.	YOUNG DEEP UNIT #6	331,656	425,046	1,366,339	646	581	927	485	525	504	477	476	611	279	271	366	6,148			
7.	YOUNG DEEP UNIT #8	89,374	93,718	36,710													505			
8.	YOUNG DEEP UNIT #9	115,490	251,998	26,593	371	397	415	695	694	786	745	650	671	612	463	571	7,070			
9.	YOUNG DEEP UNIT #10	104,394	212,885	18,899	305	363	367	439	2,055	2,005	2,138	303	347	253	215	233	3,215			
10.	YOUNG DEEP UNIT #11	402,960	625,692	40,010	2,348	2,075	2,334	2,264	2,085	2,005	2,110	2,022	2,072	2,115	1,997	1,859	25,272			
11.	YOUNG DEEP UNIT #12	258,219	352,159	1,471,646	6,288	3,921	3,675	3,454	3,428	3,342	3,604	3,386	3,150	3,454	3,136	3,050	43,677			
12.	YOUNG DEEP UNIT #13	181,265	304,741	16,268	1,326	1,143	1,319	1,279	1,525	1,439	1,535	1,514	1,452	1,518	1,433	1,050	16,533			
13.	YOUNG DEEP UNIT #14	116,185	227,977	34,471								38	272	57		258	625			
14.	YOUNG DEEP UNIT #15	72,650	129,351	6,886	218	211	174	199	194	226	205	202	257	231	197	330	2,644			
15.	YOUNG DEEP UNIT #16	42,077	74,358	3,428																
16.	YOUNG DEEP UNIT #17	294,232	482,192	18,711	1,381	1,191	1,374	1,332	1,312	1,238	1,321	1,303	1,250	1,307	1,233	1,148	13,390			
17.	YOUNG DEEP UNIT #18	25,917	59,914	11,585	234	273	656	181	203	304	441	447	175	117	409	445	3,885			
18.	YOUNG DEEP UNIT #20	130,507	239,551	19,615	629	543	695	600	620	634	645	660	734	691	624	511	7,996			
19.	YOUNG DEEP UNIT #21	71,249	273,508	10,796	437	456	496	594	355	263	249	373	1,067	1,516	1,189	801	7,996			
20.	YOUNG DEEP UNIT #22	100,052	169,789	15,388	256	279	265	228	278	237	279	344	273	242	303	425	7,754			
21.	YOUNG DEEP UNIT #23	88,321	121,985	14,490	728	663	726	722	766	708	723	634	662	661	533	228	7,754			
22.	YOUNG DEEP UNIT #24	140,002	171,644	548,705	1,079	1,014	1,113	1,145	1,172	1,119	1,169	1,130	1,069	1,027	968	939	12,944			
23.	YOUNG DEEP UNIT #25	68,807	388,866	497	4,879	4,278	4,496	4,214	5,715	5,136	4,931	4,931	4,720	4,905	4,575	4,195	56,775			
24.	YOUNG DEEP UNIT #26	140,274	333,732	12,603	5,157	4,547	4,402	4,081	4,064	3,930	3,844	3,836	2,980	2,809	2,642	2,853	45,145			
25.	YOUNG DEEP UNIT #28	57,287	56,000	70,542	491	472	475	518	493	539	560	509	490	484	438	417	5,895			
26.	YOUNG DEEP UNIT #29	41,221	75,665	7,649	481	284	528	736	798	514	767	964	897	899	781	501	8,150			
27.	YOUNG DEEP UNIT #30	41,202	336,718	419	4,827	4,233	4,449	4,170	4,215	3,788	3,637	3,637	3,482	3,618	3,375	3,094	46,525			
28.	YOUNG DEEP UNIT #31	28,209	51,038	6,827	255	190	248	438	401	364	491	518	490	440	515	492	4,842			
29.	YOUNG DEEP UNIT #32	29,416	169,412	6,867	2,590	2,271	2,387	2,332	2,352	2,114	2,029	2,029	1,942	2,018	1,883	1,726	25,578			
30.	YOUNG DEEP UNIT #33	35,224	251,140	1,324	5,145	4,512	4,743	4,445	4,673	4,200	4,032	4,032	3,860	4,011	3,741	3,430	50,824			
31.	YOUNG DEEP UNIT #34	92,972	137,483	104,909	825	1,089	927	826	779	722	699	700	746	745	712	706	9,476			
32.	YOUNG DEEP UNIT #36	27,178	111,962	1,147	2,383	2,215	2,458	2,299	2,358	2,286	2,216	2,182	2,086	2,161	1,918	1,918	26,491			
33.	YOUNG DEEP UNIT #37	20,008	137,488	1,329	3,012	2,799	3,107	2,907	2,980	2,890	2,801	2,757	2,637	2,730	2,424	2,329	33,482			
34.	YOUNG DEEP UNIT #38	29,334	99,362	368	4,580	4,089	4,290	4,291	4,170	4,000	4,132	4,045	3,888	4,421	3,890	3,976	49,772			
35.	YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535																
36.	YOUNG DEEP 3 FEDERAL #2	33,062		51,215																
37.	YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139																
38.	YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666																
39.	YOUNG DEEP 3 FEDERAL #5	183,521	342,135	22,960	805	623	694	663	882	829	800	797	768	782	742	663	9,048			
40.	YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573																
41.	YOUNG DEEP 4 FEDERAL #2	635,308	847,082	2,087,230	7,165	6,317	7,282	6,751	6,642	6,123	6,196	6,180	4,804	4,526	4,258	4,378	70,622			
42.	YOUNG DEEP 4 FEDERAL #3	191,787	457,945	2,443	2,056	1,910	2,085	1,996	2,081	2,168	2,099	2,247	1,992	2,065	2,006	1,973	24,678			
	OIL	6,497,299	10,685,885	11,093,168	77,352	62,940	67,370	63,540	67,523	63,790	63,732	62,523	58,196	59,621	56,788	55,027	753,372			

HEYCO-MONTHLY WELL PRODUCTION HISTORY

2/8/06

BW		LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM
NO.	WELL NAME	BO	MCF	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW	BW
1.	YOUNG DEEP UNIT #1	614,853	663,237	194,506	318	265	256	413	299	659	403	372	394	248	1,071	4,648				
2.	YOUNG DEEP UNIT #2	124,632	127,670	191,416																
3.	YOUNG DEEP UNIT #4	58,481	102,019	2,800	179	162	214	221	509	395	241	159	117	152	216	40	2,605			
4.	YOUNG DEEP UNIT #5	83,657	86,236	276,190																
5.	YOUNG DEEP UNIT #6	370,012	548,153	1,930,361																
6.	YOUNG DEEP UNIT #7	321,636	425,046	1,366,339	32	4		16	46	33	32	5	3	4	1,482					
7.	YOUNG DEEP UNIT #8	89,374	93,718	36,710																
8.	YOUNG DEEP UNIT #9	115,490	251,998	26,593	61	4	37	47	56	46	33	28	3	4	5	4	328			
9.	YOUNG DEEP UNIT #10	104,394	12,885	18,899	91	127	106	95			146	111	14	16	19	13	738			
10.	YOUNG DEEP UNIT #11	402,960	625,692	40,010	121	131	136	118	264	320	253	191	136	159	250	24	2,103			
11.	YOUNG DEEP UNIT #12	258,219	352,159	1,471,646																
12.	YOUNG DEEP UNIT #13	181,265	304,741	16,268	242	262	272	236									1,012			
13.	YOUNG DEEP UNIT #14	116,185	227,927	34,471								491	3,165	741		578	4,975			
14.	YOUNG DEEP UNIT #15	72,650	129,351	6,886	23	25	153	158	43	37	25	19	18	25		4	548			
15.	YOUNG DEEP UNIT #16	42,077	74,358	3,428																
16.	YOUNG DEEP UNIT #17	294,232	482,192	18,711	242	264	271	236	227	267	210	159	113	133	208	20	2,350			
17.	YOUNG DEEP UNIT #18	25,917	59,014	11,585	18	30	104	18	27	93	54	78	45	87	30	78	662			
18.	YOUNG DEEP UNIT #20	130,507	239,551	19,615	149	192	171	133	146	113	131	163	145	180	135	182	1,840			
19.	YOUNG DEEP UNIT #21	71,249	273,308	10,796	16	22	43	38	40	23	16	24	1,248	3,162	3,533	294	8,437			
20.	YOUNG DEEP UNIT #22	100,052	169,789	15,388	18	22	73	58	56	75	65	62	36	36	75	11	587			
21.	YOUNG DEEP UNIT #23	88,331	121,985	14,490																
22.	YOUNG DEEP UNIT #24	140,002	171,644	548,705	49	41	45	47	47	38	33	37	40	37	37	39	490			
23.	YOUNG DEEP UNIT #25	68,807	388,866	497													1	1		
24.	YOUNG DEEP UNIT #26	140,274	333,732	12,603	142	17											159			
25.	YOUNG DEEP UNIT #28	57,287	56,000	70,542	694	541	639	582	781	594	587	726	600	684	581	768	7,777			
26.	YOUNG DEEP UNIT #29	41,221	75,665	7,649	18	11	12	84	57	51	24	81	21	27	78	45	509			
27.	YOUNG DEEP UNIT #30	41,202	326,718	419												4	4			
28.	YOUNG DEEP UNIT #31	28,209	51,038	6,827																
29.	YOUNG DEEP UNIT #32	29,416	169,412	686																
30.	YOUNG DEEP UNIT #33	35,224	251,140	1,324	19	11	22	46	10	4	4	9	11	9	6	2	153			
31.	YOUNG DEEP UNIT #34	92,972	137,483	104,909	952	671	866	828	957	841	908	952	803	874	831	853	10,336			
32.	YOUNG DEEP UNIT #36	27,178	111,962	1,147																
33.	YOUNG DEEP UNIT #37	20,008	137,488	1,329	12	15	24	15	24	30	15	18	15	15		12	195			
34.	YOUNG DEEP UNIT #38	29,334	99,362	368	30	29	4	2	11	6	8	7	8	18	6	5	134			
35.	YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535																
36.	YOUNG DEEP 3 FEDERAL #2	33,062	51,215	150,509																
37.	YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139																
38.	YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666																
39.	YOUNG DEEP 4 FEDERAL #5	183,521	342,135	22,960	443	518	306	300	310	445	634	586	260	161	109	95	4,167			
40.	YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573																
41.	YOUNG DEEP 4 FEDERAL #2	635,308	847,082	2,087,230																
42.	YOUNG DEEP 4 FEDERAL #3	191,787	457,945	2,443	12	57	12	6	83	45	45	30	9	57	9	12	363			
	OIL	6,492,599	10,685,885	11,093,168	3,547	3,468	3,775	3,524	4,146	3,768	4,124	4,366	7,134	6,967	6,405	5,653	36,877			

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 17, 1999

New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Roy E. Johnson
Sr. Petroleum Geologist

FEB 24 1999

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1999 Plan of Development and
Operation

Ladies & Gentlemen:

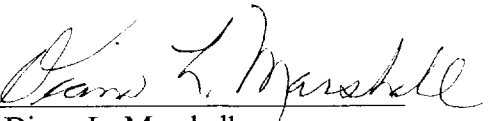
Enclosed is a copy of the 1999 Plan of Development and Operation for Harvey E. Yates Company's (HEYCO's) Young Deep Unit in Lea County, New Mexico. This covers the Bone Spring, Delaware and Wolfcamp Participating Areas.

This has been submitted for approval to the Bureau of Land Management. Approval from the Commissioner of Public Lands is not required, as there are no State of New Mexico lands in this unit.

HEYCO respectfully requests the New Mexico Oil Conservation Division's approval of this Plan of Development.

Very truly yours,

HARVEY E. YATES COMPANY

By: 
Diana L. Marshall

/dlm

Enclosures

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HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FA : 505 / 622-4221

ROSWELL, NEW MEX CO 88202-1933

February 16, 1999

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1999 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1999 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

In this regard, we are enclosing a current unit map (which is unchanged from last year's map) showing all existing wells. Also included is production data for 1998, prepared by Ray F. Nokes, Production Manager/Engineer.

As a result of the economic downturn in the oil and gas industry in 1998, and because a number of our partners were (and are) reorganizing their financial and physical structure, which prevented us from getting adequate partner approval, we did not drill any Young Deep Unit wells in 1998.

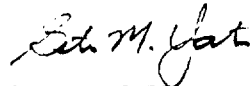
HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996.

HEYCO is involved in a continuing study of the sands and carbonates in the Young Deep Unit and anticipates drilling one infill well in 1999. At this time the location, objective or depth have not been determined by management.

cc: Mr. [Name] [Address] [City] [State] [Zip]

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this 1999 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,



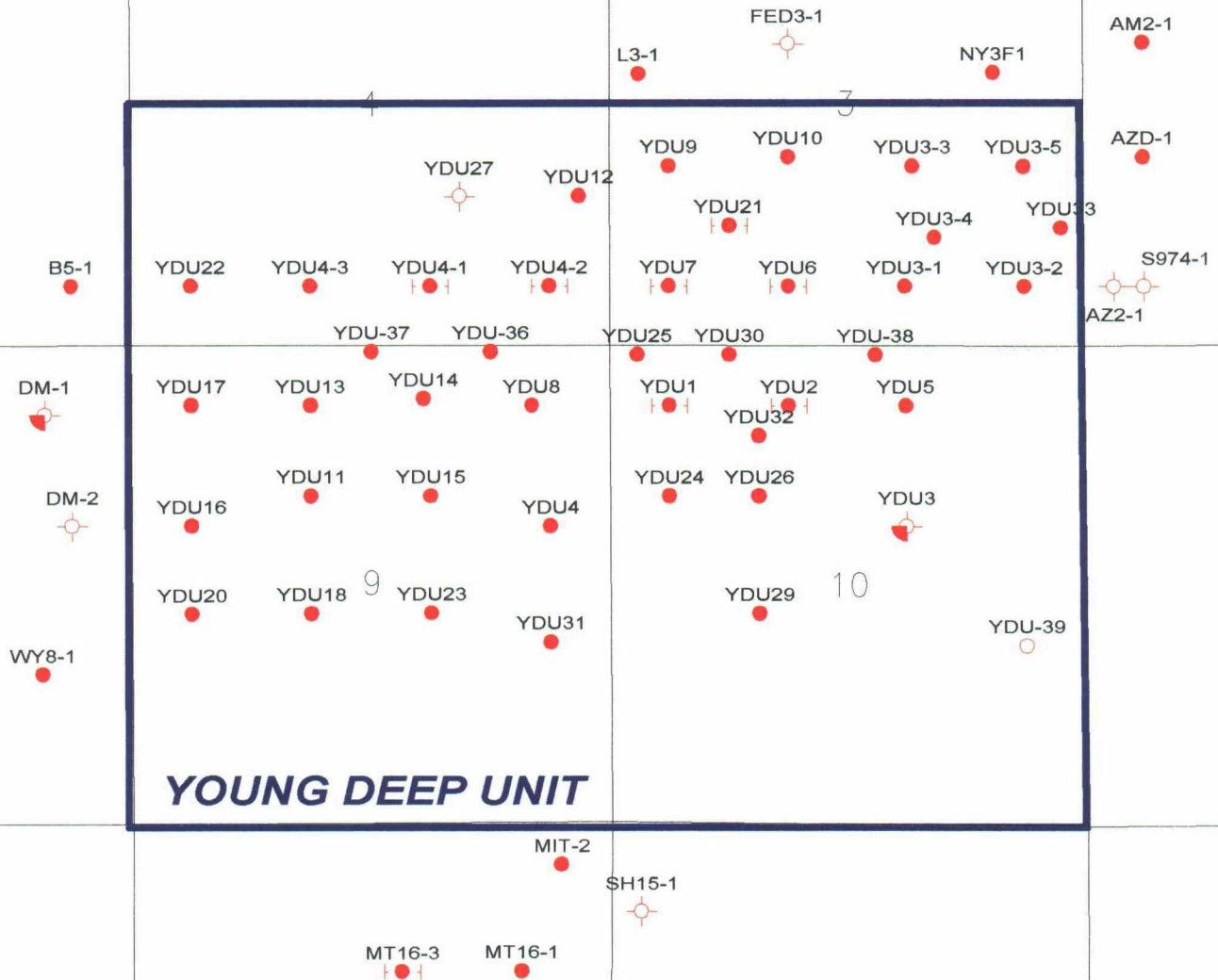
Steven M. Yates
Vice-President

/dlm
Enclosures

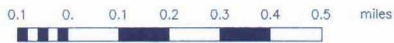
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xc. ✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Roy E. Johnson, Sr. Petroleum Geologist

18/32



Scale 1:24000.



HARVEY E. YATES COMPANY

YOUNG DEEP UNIT
T-18-S, R-32-E
LEA COUNTY, NEW MEXICO

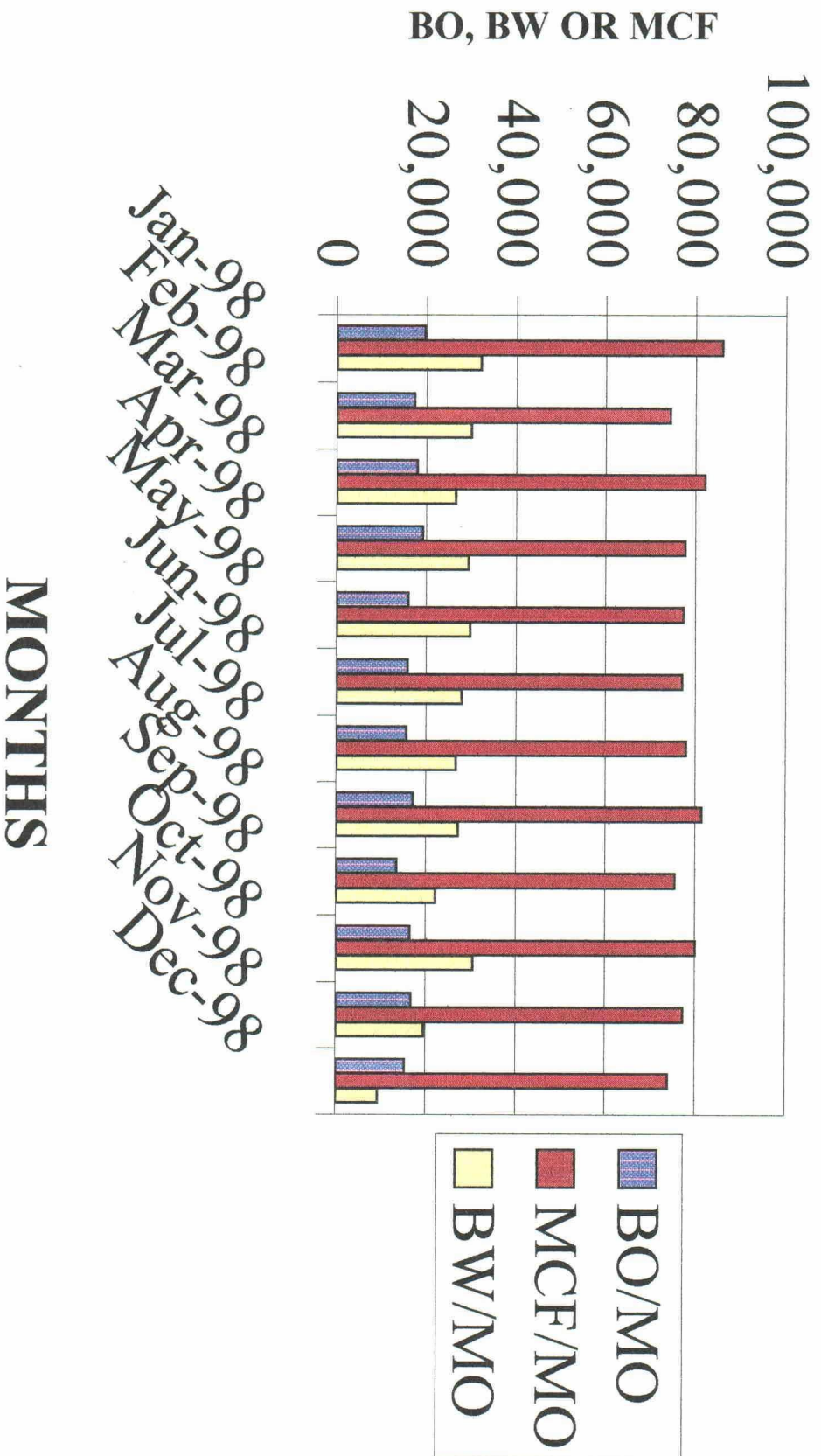
Ramon Reyes

2/16/99

Scale 1:24000.

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YOUNG DEEP UNIT PRODUCTION FOR 1998



HEYCO-1998 MONTHLY WELL PRODUCTION HISTORY FOR YOUNG DEEP UNIT

1/27/99

NO.	WELL NAME	LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM
		CUMS	CUMS	CUMS	1-98	2-98	3-98	4-98	5-98	6-98	7-98	8-98	9-98	10-98	11-98	12-98	1998	
1.	YOUNG DEEP UNIT #1	589,469	584,870	189,858	1,381	1,961	1,603	1,593	2,009	1,929	1,875	2,858	223	2,714	3,190	2,744	21,336	
2.	YOUNG DEEP UNIT #2	124,652	127,670	191,416														
3.	YOUNG DEEP UNIT #4	56,871	99,673	195	260	257	306	276	239	244	322	294	274	290	157	49	2,919	
4.	YOUNG DEEP UNIT #5	83,657	86,236	276,190														
5.	YOUNG DEEP UNIT #6	365,723	507,445	1,930,339	609	331	239	209	212	674	615	811	731	467	554	579	5,452	
6.	YOUNG DEEP UNIT #7	320,592	418,898	1,366,160	268	222	257	224	242	241	168	222	194	141	175	53	2,354	
7.	YOUNG DEEP UNIT #8	89,229	93,213	35,228														
8.	YOUNG DEEP UNIT #9	112,784	244,928	26,265	221	177	206	179	193	192	179	236	212	150	175	53	2,120	
9.	YOUNG DEEP UNIT #10	103,700	209,670	18,161	277	222	257	224	242	241	179	236	212	150	175	53	2,415	
10.	YOUNG DEEP UNIT #11	397,715	600,420	37,907	495	489	583	526	464	487	499	424	439	465	505	538	5,376	
11.	YOUNG DEEP UNIT #12	247,355	308,448	1,471,646	1,654	1,353	1,404	1,382	1,196	1,383	1,306	1,350	1,288	1,364	1,337	1,305	15,017	
12.	YOUNG DEEP UNIT #13	177,421	288,208	15,256	306	334	459	415	358	405	353	387	373	395	409	438	4,194	
13.	YOUNG DEEP UNIT #14	116,185	227,302	29,496	227	386	306	276	185								1,380	
14.	YOUNG DEEP UNIT #15	71,097	126,707	6,338	130	129	153	138	119	122	137	121	117	123	157	49	1,446	
15.	YOUNG DEEP UNIT #16	42,077	74,538	3,428														
16.	YOUNG DEEP UNIT #17	289,536	466,802	16,361	287	283	337	304	334	244	301	285	274	290	409	438	3,348	
17.	YOUNG DEEP UNIT #18	24,156	55,129	10,923	171	162	174	169	175	156	160	168	159	158	144	118	1,796	
18.	YOUNG DEEP UNIT #20	126,050	231,965	17,775	478	414	447	412	419	393	386	388	368	385	372	395	4,462	
19.	YOUNG DEEP UNIT #21	68,151	265,512	2,359	194	155	180	157	107	146	129	171	154	109	52	12	1,554	
20.	YOUNG DEEP UNIT #22	98,740	166,385	14,801	156	154	184	166	143	171	201	173	171	181	157	49	1,862	
21.	YOUNG DEEP UNIT #23	85,605	114,231	14,490	325	282	305	279	287	280	258	278	273	253	308	300	3,078	
22.	YOUNG DEEP UNIT #24	135,961	158,700	548,215	511	443	477	433	442	380	386	421	369	406	393	386	4,661	
23.	YOUNG DEEP UNIT #25	63,995	331,891	496	1,018	842	537	486	518	516	589	573	534	561	516	522	6,690	
24.	YOUNG DEEP UNIT #26	134,951	288,587	12,444	471	377	592	516	556	457	410	384	488	1,107	642	762	6,000	
25.	YOUNG DEEP UNIT #28	54,270	50,105	62,765	312	268	287	271	269	244	250	236	212	234	280	314	2,963	
26.	YOUNG DEEP UNIT #29	37,995	67,515	7,140	296	258	297	292	269	266	284	272	260	273	265	172	3,032	
27.	YOUNG DEEP UNIT #30	36,542	280,193	415	633	524	621	562	454	572	494	463	463	454	378	396	5,618	
28.	YOUNG DEEP UNIT #31	26,269	46,196	6,827	192	154	184	176	185	139	180	181	168	175	184	106	1,918	
29.	YOUNG DEEP UNIT #32	25,765	143,834	686	339	281	355	321	318	401	401	402	376	368	407	426	3,969	
30.	YOUNG DEEP UNIT #33	31,588	200,316	1,171	792	655	777	702	793	430	465	466	436	427	407	426	6,350	
31.	YOUNG DEEP UNIT #34	89,018	128,007	94,573	437	402	436	361	373	364	349	370	340	370	338	379	4,140	
32.	YOUNG DEEP UNIT #36	21,050	85,471	1,147	745	642	706	1,332	630	610	608	596	479	558	580	568	7,501	
33.	YOUNG DEEP UNIT #37	15,513	104,006	1,134	609	524	577	1,087	515	498	503	470	287	456	427	418	5,958	
34.	YOUNG DEEP UNIT #38	18,816	49,590	234	2,304	1,745	1,769	3,205	1,597	1,504	1,374	1,468	1,299	1,247	1,178	1,154	18,690	
35.	YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535														
36.	YOUNG DEEP 3 FEDERAL #2	33,062	51,215	150,509	122	75	35										232	
37.	YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139														
38.	YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666	799	619	394	327	501	571	606	569	475	597	403	87	5,861	
39.	YOUNG DEEP 3 FEDERAL #5	178,818	333,087	18,793	367	286	750	501	155	171	194	170	173	172	402	447	3,341	
40.	YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573														
41.	YOUNG DEEP 4 FEDERAL #2	626,961	776,460	2,087,147	1,605	1,284	1,183	1,032	905	899	952	1,133	1,132	800	1,050	1,099	11,975	
42.	YOUNG DEEP 4 FEDERAL #3	187,026	433,267	2,000	560	569	530	639	567	471	449	517	443	471	483	430	5,699	

HELP UNIT

D.	MO.	MO.	MO.	MO.	MO.	MO.	MO.
18	6.98	7.98	8.98	9.98	10.98	11.98	
19	MCF	MCF	MCF	MCF	MCF	MCF	
20	3.551	3.416	5.460	716	5.767	6.098	
21							
22	339	374	354	338	332	321	
23							
24	3,976	3,710	4,356	4,162	2,937	3,306	
25	4,126	2,370	2,782	2,569	2,077	2,739	
26							
27	985	967	1,135	1,084	847	1,102	
28	1,078	967	1,135	1,084	847	31	
29	1,886	2,170	1,917	2,025	1,994	2,098	
30	6,147	6,212	6,872	7,332	7,890	7,557	
31	1,228	1,017	1,156	1,139	1,121	1,185	
32							
33	508	677	621	612	602	99	
34							
35	1,228	1,267	1,241	1,224	1,204	1,235	
36	398	625	545	457	525	506	
37	839	860	739	768	751	709	
38	2,747	3,211	3,771	3,602	2,815	1,681	
39	720	841	771	760	747	741	
40	773	767	763	723	697	707	
41	1,406	1,419	1,376	1,262	1,239	1,158	
42	5,617	5,717	5,651	5,449	5,366	5,074	
43	2,511	3,742	3,118	4,197	7,324	4,691	
44	370	361	289	310	564	532	
45	259	276	198	438	496	570	
46	5,558	5,657	5,552	5,391	5,309	5,020	
47	147	178	244	334	248	195	
48	2,982	3,035	3,000	2,892	2,848	2,694	
49	5,924	6,030	5,960	5,747	5,659	5,352	
50	1,014	1,005	963	900	932	857	
51	3,023	3,124	3,011	2,458	2,566	2,490	
52	3,820	3,948	3,807	3,106	3,244	3,147	
53	4,289	4,798	4,870	4,729	4,654	4,404	
54							
55							
56							
57							
58	87	83	88	64	87	450	
59	1,517	1,554	1,531	1,349	1,463	1,050	
60							
61	5,771	5,362	5,687	6,016	4,700	6,425	
62	2,198	2,171	2,253	2,219	2,183	2,193	
63	77,022	77,911	81,356	75,356	80,035	77,247	

HEYCO-1998 MONTHLY WELL PRODUCTION HISTORY FOR YOUNG DEEP UNIT

1/27/95

WELL NAME		LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM
NO.	CUMS	CUMS	CUMS	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM
1. YOUNG DEEP UNIT #1	589,469	584,970	189,858	4,412	4,002	3,702	3,382	3,541	3,551	3,416	5,460	716	6,928	5,767	6,928	6,861	44,877	198	198
2. YOUNG DEEP UNIT #2	124,032	127,070	191,410															198	198
3. YOUNG DEEP UNIT #3	56,871	99,673	195	336	313	318	315	340	339	374	354	338	332	321	105	3,680	3,680	198	198
4. YOUNG DEEP UNIT #4	83,657	86,236	276,190		2,949	1,970	1,949	1,480	3,976	3,710	4,356	4,162	2,937	3,306	3,895	35,774	35,774	198	198
5. YOUNG DEEP UNIT #6	365,723	507,445	1,930,349	4,979	2,339	2,366	2,343	1,827	1,886	2,170	1,917	2,025	1,994	2,098	2,373	23,451	23,451	198	198
6. YOUNG DEEP UNIT #7	320,592	418,898	1,366,160	3,800	3,428	4,530	4,482	4,715	4,126	2,370	2,782	2,569	2,077	2,739	937	37,618	37,618	198	198
7. YOUNG DEEP UNIT #9	89,229	93,213	35,228															198	198
8. YOUNG DEEP UNIT #9	224,928	224,928	26,265	937	818	1,081	1,069	1,125	985	967	1,135	1,084	847	1,102	377	11,150	11,150	198	198
9. YOUNG DEEP UNIT #10	103,700	209,670	18,161	1,026	896	1,184	1,171	1,232	1,078	967	1,135	1,084	847	31	11	10,651	10,651	198	198
10. YOUNG DEEP UNIT #11	397,715	600,420	37,907	2,496	2,339	2,366	2,343	1,827	1,886	2,170	1,917	2,025	1,994	2,098	2,373	23,451	23,451	198	198
11. YOUNG DEEP UNIT #12	247,355	308,488	1,471,646	4,622	3,111	5,897	6,209	5,115	6,147	6,212	6,872	7,232	7,890	7,557	7,451	66,864	66,864	198	198
12. YOUNG DEEP UNIT #13	177,021	288,208	15,256	758	782	1,093	1,082	1,168	1,228	1,017	1,156	1,139	1,121	1,185	1,340	11,729	11,729	198	198
13. YOUNG DEEP UNIT #14	116,185	227,302	29,496	414	665	855	846	707								3,487	3,487	198	198
14. YOUNG DEEP UNIT #15	71,097	126,707	6,338	357	332	557	551	594	508	677	621	612	602	99	32	5,510	5,510	198	198
15. YOUNG DEEP UNIT #16	42,077	74,358	3,428															198	198
16. YOUNG DEEP UNIT #17	289,536	466,802	16,361	881	821	835	826	743	1,228	1,267	1,241	1,224	1,204	1,235	1,395	11,505	11,505	198	198
17. YOUNG DEEP UNIT #18	24,156	55,129	10,923	432	334	333	518	336	398	625	545	457	525	506	301	4,989	4,989	198	198
18. YOUNG DEEP UNIT #20	126,050	231,965	17,775	832	746	780	748	817	839	860	739	768	751	709	615	8,589	8,589	198	198
19. YOUNG DEEP UNIT #21	68,151	265,512	2,359	3,983	3,477	4,596	4,547	2,948	2,747	3,211	3,771	3,602	2,815	1,681	426	37,378	37,378	198	198
20. YOUNG DEEP UNIT #22	98,740	166,385	14,801	881	821	835	826	892	720	767	771	760	747	741	243	8,835	8,835	198	198
21. YOUNG DEEP UNIT #23	85,605	114,231	14,490	752	649	761	761	785	773	841	763	723	697	707	703	8,138	8,138	198	198
22. YOUNG DEEP UNIT #24	135,961	158,700	548,215	1,882	1,624	1,749	1,624	1,617	1,406	1,419	1,376	1,262	1,239	1,158	1,025	16,356	16,356	198	198
23. YOUNG DEEP UNIT #25	63,995	331,891	496	7,593	6,479	6,030	6,079	5,617	5,717	5,651	5,449	4,896	5,366	5,074	4,896	65,974	65,974	198	198
24. YOUNG DEEP UNIT #26	134,951	288,587	12,444	2,191	1,912	1,773	1,754	1,845	2,511	3,742	3,118	4,197	7,324	4,691	5,527	35,058	35,058	198	198
25. YOUNG DEEP UNIT #28	54,270	50,105	62,765	452	375	407	361	454	370	361	289	310	564	532	567	4,475	4,475	198	198
26. YOUNG DEEP UNIT #29	37,995	67,515	7,140	503	546	619	528	213	259	276	198	297	496	570	297	4,646	4,646	198	198
27. YOUNG DEEP UNIT #30	36,542	280,193	415	7,513	6,411	6,846	5,966	6,016	5,558	5,657	5,592	5,391	5,309	5,020	4,845	65,279	65,279	198	198
28. YOUNG DEEP UNIT #31	26,269	46,196	6,827	470	296	297	276	147	157	178	178	334	248	195	195	2,961	2,961	198	198
29. YOUNG DEEP UNIT #32	25,765	143,834	686	4,031	3,440	3,673	3,201	3,227	2,982	3,035	3,000	2,892	2,848	2,694	2,599	35,023	35,023	198	198
30. YOUNG DEEP UNIT #33	31,588	200,316	1,171	8,008	6,834	7,297	6,300	6,413	5,924	6,030	5,860	5,747	5,659	5,332	5,164	69,584	69,584	198	198
31. YOUNG DEEP UNIT #34	89,018	128,007	94,573	1,222	1,076	1,084	947	990	1,014	1,005	963	900	932	857	908	10,990	10,990	198	198
32. YOUNG DEEP UNIT #36	21,050	85,471	1,147	3,392	2,972	3,250	3,066	3,136	3,023	3,124	3,011	2,458	2,566	2,430	2,444	32,488	32,488	198	198
33. YOUNG DEEP UNIT #37	15,513	104,006	1,134	4,288	3,757	4,107	3,876	3,963	3,820	3,948	3,807	3,106	3,244	3,147	3,089	41,063	41,063	198	198
34. YOUNG DEEP UNIT #38	18,816	49,590	224	2,455	3,115	3,774	3,801	4,186	4,289	4,798	4,870	4,729	4,654	4,404	4,515	45,075	45,075	198	198
35. YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535															198	198
36. YOUNG DEEP 3 FEDERAL #2	33,062	51,215	150,509	115	80	27												198	198
37. YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139															198	198
38. YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666	1,084	955	62	66	83	87	83	88	64	87	450	85	3,109	3,109	198	198
39. YOUNG DEEP 3 FEDERAL #5	178,818	333,087	18,793	230	203	790	679	1,499	1,517	1,554	1,531	1,349	1,463	1,050	1,030	11,865	11,865	198	198
40. YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573															198	198
41. YOUNG DEEP 4 FEDERAL #2	626,961	776,460	2,087,147	6,572	5,738	5,416	5,358	6,596	5,771	5,362	5,687	6,016	4,700	6,425	7,567	63,641	63,641	198	198
42. YOUNG DEEP 4 FEDERAL #3	187,026	433,267	2,080	1,934	1,945	2,150	2,053	2,308	2,198	2,171	2,353	2,219	2,183	2,193	2,025	23,707	23,707	198	198

OIL	MCF	WATER
6,339,569	9,932,513	11,036,291
	85,833	74,231
	81,973	77,571
	77,256	77,022
	77,911	81,356
	75,356	80,035
	77,247	73,872
	866,741	

HEYCO-1998 MONTHLY WELL PRODUCTION HISTORY FOR YOUNG DEEP UNIT

1/27/99

NO.	WELL NAME	LIFE	LIFE	LIFE	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	MO.	SUM		
		CUMS	CUMS	CUMS	1-98	2-98	3-98	4-98	5-98	6-98	7-98	8-98	9-98	10-98	11-98	12-98	1998																
1.	YOUNG DEEP UNIT #1	589,469	584,870	189,858	371	521	259	290	391	269	671	655	557	1,091	682	509	1998	BO														5,757	
2.	YOUNG DEEP UNIT #2	124,632	121,610	191,416																													
3.	YOUNG DEEP UNIT #4	56,871	99,673	195																													
4.	YOUNG DEEP UNIT #5	83,657	86,236	276,190																												437	
5.	YOUNG DEEP UNIT #6	365,723	507,445	1,930,349	66	33	17	10	9	69	68	36	55	74																			
6.	YOUNG DEEP UNIT #7	320,592	418,898	1,366,160	63	49	27	16	86	61	75	40	58	90	34	10	599																
7.	YOUNG DEEP UNIT #8	89,229	93,213	35,228																													
8.	YOUNG DEEP UNIT #9	112,784	244,928	26,265	66	49	27	16	86	61	102	54	82	122	17	5	682																
9.	YOUNG DEEP UNIT #10	103,700	209,670	18,161	66	49	27	16	86	61	102	53	82	122	581	168	1,245																
10.	YOUNG DEEP UNIT #11	397,715	600,420	37,907	168	113	56	67	45	125	177	187	142	150	174	168	1,404																
11.	YOUNG DEEP UNIT #12	247,355	308,482	1,471,646	6	30	33										69																
12.	YOUNG DEEP UNIT #13	177,021	288,208	15,256	456	338	56	67	92	501	295	400	284	301	348	335	3,138																
13.	YOUNG DEEP UNIT #14	116,185	227,302	29,496	1,269	1,464	1,852	2,195	2,351								9,131																
14.	YOUNG DEEP UNIT #15	71,097	126,707	6,338						125	219	240	171	181	232	65	1,168																
15.	YOUNG DEEP UNIT #16	42,077	74,358	3,428																													
16.	YOUNG DEEP UNIT #17	289,536	466,802	16,361	168	113	56	67	163	250	341	401	284	301	349	335	2,493																
17.	YOUNG DEEP UNIT #18	24,156	55,129	10,923	111	33	33	93	42	115	147	42	54	30	36	27	736																
18.	YOUNG DEEP UNIT #20	126,050	231,965	17,775	159	137	139	178	93	85	96	184	134	186	153	198	1,544																
19.	YOUNG DEEP UNIT #21	68,151	265,512	2,359	66	49	27	16		41	51	27	41	61		379																	
20.	YOUNG DEEP UNIT #22	98,740	166,385	14,801																													
21.	YOUNG DEEP UNIT #23	85,605	114,231	14,490																													
22.	YOUNG DEEP UNIT #24	135,961	158,700	548,215	63	56	49	56	56	38	54	51	49	50	48	35	570																
23.	YOUNG DEEP UNIT #25	63,995	331,891	496																													
24.	YOUNG DEEP UNIT #26	134,951	288,587	12,444	392	293	38	23	128	241				72	34	17	1,221																
25.	YOUNG DEEP UNIT #28	54,270	50,105	62,765	617	460	517	729	580	452	450	628	629	705	700	755	6,467																
26.	YOUNG DEEP UNIT #29	37,995	67,515	7,140	33	91	27	18	3	54	15	21	90	36	40	42	428																
27.	YOUNG DEEP UNIT #30	36,542	280,193	415											8	12	8																
28.	YOUNG DEEP UNIT #31	26,269	46,196	6,827																													
29.	YOUNG DEEP UNIT #32	25,765	143,834	686			31	18									49																
30.	YOUNG DEEP UNIT #33	31,588	200,316	1,171	29	22			27	16	15	20	26	19	8	11	182																
31.	YOUNG DEEP UNIT #34	89,018	128,007	94,573	910	912	908	921	908	872	917	973	993	959	858	838	10,131																
32.	YOUNG DEEP UNIT #36	21,050	85,471	1,147	14	11	14	15	12	11	12	14	28	17			148																
33.	YOUNG DEEP UNIT #37	15,513	104,006	1,134	13	10	13	15	12	10	12	13	20	16	12	21	146																
34.	YOUNG DEEP UNIT #38	18,816	49,590	234	24	6	3	1	2	1			1	8	6	6	52																
35.	YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535																													
36.	YOUNG DEEP 3 FEDERAL #2	33,062	51,215	150,509	1,480	1,103	165										2,748																
37.	YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139																													
38.	YOUNG DEEP 3 FEDERAL #4	461,281	465,602	1,889,666	25,394	24,006	21,981	24,488	24,331	24,164	22,540	22,785	18,065	25,564	14,995	5,388	248,313																
39.	YOUNG DEEP 3 FEDERAL #5	178,818	333,087	18,793			93	84	184	177	177	167	161	181	190	352	1,414																
40.	YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573																													
41.	YOUNG DEEP 4 FEDERAL #2	626,961	776,460	2,087,147							104	50	83	125			362																
42.	YOUNG DEEP 4 FEDERAL #3	187,026	433,267	2,080	57	15	3		40		6	63	9	57	18	15	268																

OIL	MCF	WATER
6,339,569	9,932,513	11,036,291



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

6775
OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

April 28, 1998

Steven M. Yates
Harvey E. Yates Company
P. O. Box 1933
Roswell, NM 88202-1933

RE: 1998 Initial Plan of Development and Operation
Young Deep Unit Area
Contract #14-08-0001-18042
T-18S, R-32E, NMPM
Lea County, New Mexico

Gentlemen:

The New Mexico Oil Conservation Division is in receipt of your above referenced application which has been approved on this date. Our approval is subject to like approval by the New Mexico State Land Office and the Bureau of Land Management where applicable.

Should you have any questions pertaining to this matter, please contact me at (505) 827-8198

Sincerely,

A handwritten signature in dark ink, appearing to read "Roy E. Johnson".

Roy E. Johnson
Senior Petroleum Geologist

REJ:kv

cc: NMSLO
Bureau of Land Management - Roswell
Unit File

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

MAR 18 1998

February 18, 1998

Bureau of Land Management
Roswell District Office
2909 West Second
Roswell, New Mexico 88201

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1998 Plan of Development and
Operation

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1998 Plan of Development and Operation (in triplicate) as prescribed by Section 10 of the Young Deep Unit Agreement. This plan covers the Bone Spring, Delaware and Wolfcamp Participating Areas in the Young Deep Unit.

In this regard, we are enclosing a current unit map showing all existing wells. Also included is production data for 1997, prepared by Ray F. Nokes, Production Manager/Engineer.

As a result of our seismic acquisition, interpretation, and study we drilled the following infill well in 1997.

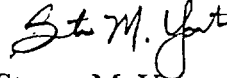
Date	Well No.	Operation/Result	Unit Letter/Sec.
11/97	38	Completed in Bone Spring 2nd Sand	B-10

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996.

HEYCO is involved in a continuing study of the sands and carbonates in the Young Deep Unit and anticipates drilling one infill well in 1998. At this time the location, objective or depth have not been determined by management.

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this 1998 Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,



Steven M. Yates
Vice-President

/dlm
Enclosures

ydupod98.doc/A:ydu#3

xc: ✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: Roy E. Johnson, Sr. Petroleum Geologist

HARVEY E. YATES COMPANY (YOUNG DEEP UNIT 1997 PRODUCTION)

12-97 CUM	LIFE CUMS BO	LIFE CUMS MCF	LIFE CUMS BW	1997'S TOTAL BO	1997'S TOTAL MCF
WELL NAME					
YOUNG DEEP UNIT #1	565,389	533,132	183,592	24,153	43,851
YOUNG DEEP UNIT #2	124,632	127,670	191,416	846	5,715
YOUNG DEEP UNIT #4	53,903	95,888	195	2,531	4,131
YOUNG DEEP UNIT #5	83,657	86,236	276,190		
YOUNG DEEP UNIT #6	359,692	467,776	1,929,912	8,918	70,512
YOUNG DEEP UNIT #7	318,185	380,343	1,365,551	5,524	52,592
YOUNG DEEP UNIT #8	89,229	93,213	35,228	0	0
YOUNG DEEP UNIT #9	110,611	233,401	25,578	2,557	11,783
YOUNG DEEP UNIT #10	101,232	199,008	16,748	2,991	12,798
YOUNG DEEP UNIT #11	391,801	574,596	36,335	6,548	31,087
YOUNG DEEP UNIT #12	231,033	234,167	1,471,577	27,617	61,898
YOUNG DEEP UNIT #13	172,389	275,139	11,783	4,642	14,231
YOUNG DEEP UNIT #14	114,805	223,815	20,365	3,763	7,800
YOUNG DEEP UNIT #15	69,602	121,165	5,105	1,470	5,672
YOUNG DEEP UNIT #16	42,077	74,358	3,428		
YOUNG DEEP UNIT #17	285,750	453,902	13,533	5,422	10,694
YOUNG DEEP UNIT #18	22,242	49,839	10,160	2,221	7,306
YOUNG DEEP UNIT #20	121,193	222,761	16,033	5,698	11,086
YOUNG DEEP UNIT #21	66,585	227,708	1,980	4,435	60,565
YOUNG DEEP UNIT #22	96,829	157,307	14,801	2,221	10,663
YOUNG DEEP UNIT #23	82,227	105,390	14,490	3,787	9,445
YOUNG DEEP UNIT #24	130,914	141,319	547,610	8,921	26,398
YOUNG DEEP UNIT #25	56,783	261,021	496	13,750	102,014
YOUNG DEEP UNIT #26	128,189	248,002	11,206	6,235	27,416
YOUNG DEEP UNIT #28	50,993	45,063	55,543	3,595	4,808
YOUNG DEEP UNIT #29	34,791	62,572	6,670	3,582	7,497
YOUNG DEEP UNIT #30	30,528	210,069	395	8,890	97,991
YOUNG DEEP UNIT #31	24,245	43,011	6,827	2,296	4,716
YOUNG DEEP UNIT #32	21,370	106,212	637	6,684	52,717
YOUNG DEEP UNIT #33	24,812	125,568	978	12,751	92,230
YOUNG DEEP UNIT #34	84,499	116,109	83,604	6,797	19,975
YOUNG DEEP UNIT #36	13,674	50,539	999	10,748	45,441
YOUNG DEEP UNIT #37	9,702	59,854	967	9,927	59,641
YOUNG DEEP UNIT #38	551	0	176	551	
YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535		
YOUNG DEEP 3 FEDERAL #2	32,830	50,993	147,761	2,172	5,104
YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139	124	163
YOUNG DEEP 3 FEDERAL #4	455,333	462,408	1,635,965	9,167	17,636
YOUNG DEEP 3 FEDERAL #5	175,030	320,192	17,027	4,151	3,685
YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573		
YOUNG DEEP 4 FEDERAL #2	613,887	705,252	2,086,785	19,020	66,828
YOUNG DEEP 4 FEDERAL #3	180,897	407,535	1,797	7,123	22,784
TOTALS	6,142,434	8,992,900	10,725,690	251,828	1,088,873

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

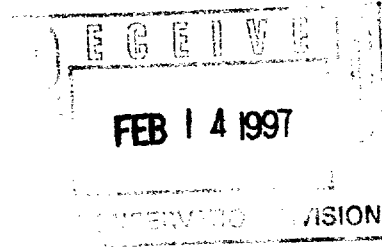
FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 12, 1997

D-unit letter

*Thx
Key*



Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Roy E. Johnson, Sr. Petroleum Geologist

Re: Young Deep Unit
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1997 Plan of Development and
Operation

Ladies & Gentlemen:

Attached is a copy of the 1997 Plan of Development and Operation for the Young Deep Unit, with pertinent enclosures, which has been submitted to the Bureau of Land Management this date for approval. This covers the Bone Spring, Wolfcamp and Delaware Participating Areas.

Harvey E. Yates Company respectfully requests your approval of this Plan of Development as well.

Very truly yours,

Shari Darr
Land Manager

/dlm
Enclosures

ydpd97oc.doc/A:ydu#1

IP. 44 BOPD 1/3/97

HEYCO has three water injection wells (#5, #16 and 3 Fed. #1). Two wells are Delaware producers (#28 and #34) and #1 is a Wolfcamp producer. All others are Bone Spring producers. HEYCO permanently plugged the Young Deep 4 Fed. #1 and the Young Deep 3 Fed. #3 in 1996

HEYCO is actively involved in a continuing study of the sands and carbonates in the Young Deep Unit and anticipates three additional infill wells in 1997.

<u>Well No.</u>	<u>Objective/Depth</u>	<u>Location</u>
38	Complete in Bone Spring 2nd Sand	B-10
3 Fed. #6	Complete in Bone Spring 2nd Sand	O-3
4 Fed. #4	Complete in Bone Spring 2nd Sand	O-4

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,

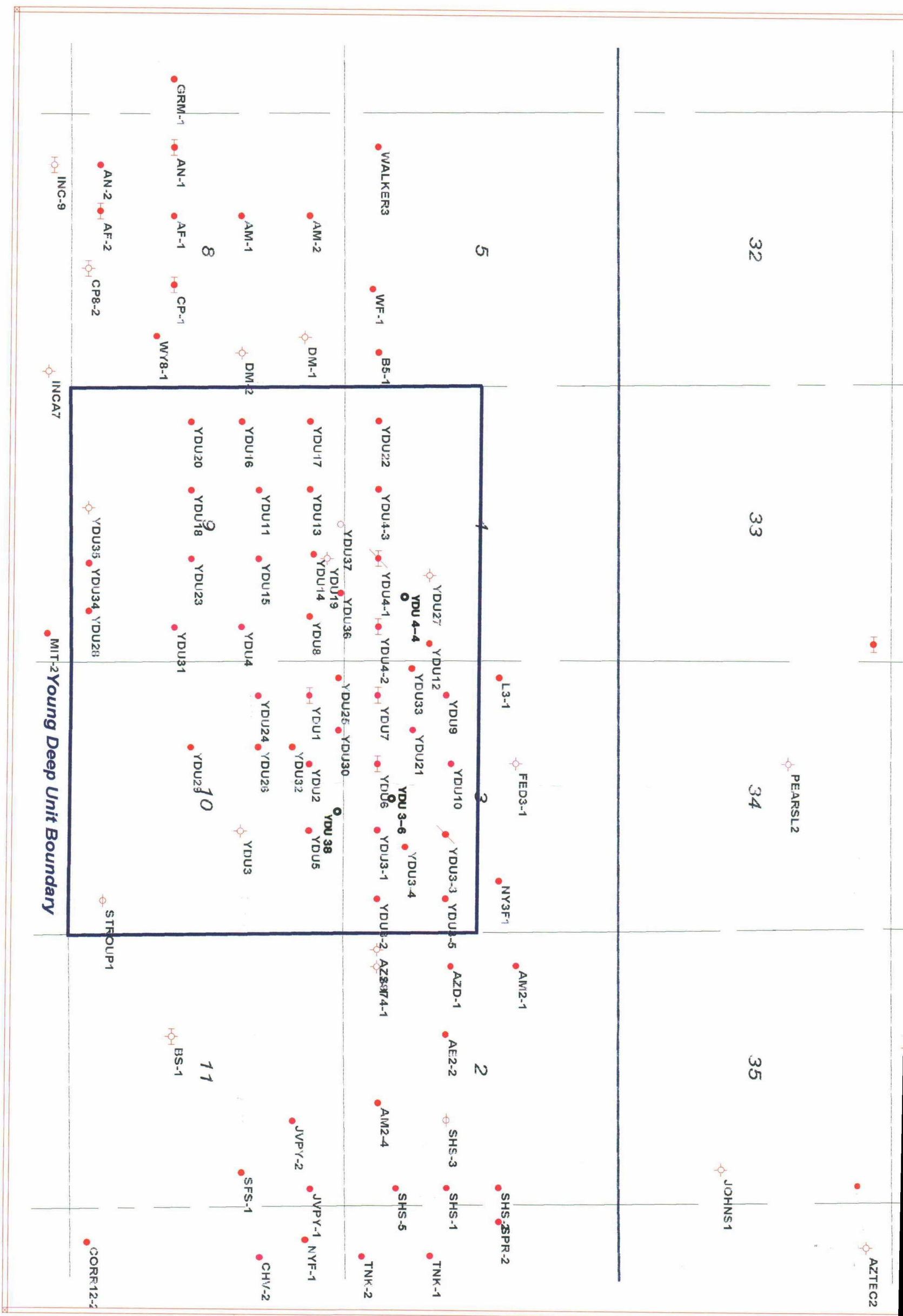

Shari A. Darr
Land Manager

SMY:SAD/dlm
Enclosures

ydupod97.doc/A:ydu#2

xc: Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay, Director

HARVEY E. YATES COMPANY (YOUNG DEEP UNIT 1996 PRODUCTION)																								
	LIFE	LIFE	LIFE	1991'S	1992'S	1993'S	1994'S	1995'S	1996'S	1991'S	1992'S	1993'S	1994'S	1995'S	1996'S	1991'S	1992'S	1993'S	1994'S	1995'S	1996'S			
	CUMS	CUMS	CUMS	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL		
WELL NAME	BO	MCF	BW	BO	BO	BO	BO	BO	BO	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF	MCF			
YOUNG DEEP UNIT #1	541,236	489,281	180,027	95,081	88,856	49,359	25,950	25,013	31,083	75,464	51,215	37,242	57,998	37,517	58,027									
YOUNG DEEP UNIT #2	123,786	121,955	177,753	0	0	1,063	6,181	4,328	3,151	0	0	785	9,792	8,896	11,086									
YOUNG DEEP UNIT #4	51,372	91,757	90	2,330	1,707	1,551	2,566	1,555	1,311	6,354	4,891	4,393	6,209	5,572	5,195									
YOUNG DEEP UNIT #5		86,236	276,190																					
YOUNG DEEP UNIT #6	350,774	397,264	1,979,454	3,804	2,548	425	21,488	23,080	14,767	7,253	8,317	1,243	37,341	31,836	67,470									
YOUNG DEEP UNIT #7	312,661	327,751	1,365,194	3,548	2,384	370	4,653	28,162	13,767	6,985	7,976	1,121	6,820	49,833	50,048									
YOUNG DEEP UNIT #8	89,229	93,213	35,228	2,531	1,915	1,926	5,222	3,933	0	2,846	3,639	3,121	7,956	6,308	0									
YOUNG DEEP UNIT #9	108,054	221,618	25,184	4,478	3,346	3,753	4,037	3,426	2,600	11,234	14,149	13,339	11,842	9,723	10,876									
YOUNG DEEP UNIT #10	98,241	186,210	16,353	6,015	4,539	6,015	5,016	3,736	2,895	12,856	17,078	19,926	14,189	11,262	13,566									
YOUNG DEEP UNIT #11	385,253	543,509	33,762	21,420	15,584	13,313	16,752	9,663	7,946	48,007	36,550	32,220	36,229	32,337	29,444									
YOUNG DEEP UNIT #12	205,416	172,269	1,471,397	47,224	29,615	23,420	22,214	14,946	22,469	39,768	25,994	19,059	16,723	11,678	14,919									
YOUNG DEEP UNIT #13	167,247	260,908	9,392	5,840	4,347	3,351	17,104	15,703	10,599	17,035	13,342	11,113	34,062	31,185	23,799									
YOUNG DEEP UNIT #14	111,042	216,015	13,305	6,097	4,588	3,880	3,902	3,717	3,211	21,459	16,980	15,332	11,083	8,231	7,295									
YOUNG DEEP UNIT #15	68,132	115,493	4,332	4,233	3,148	2,530	2,650	1,889	1,571	7,770	6,078	5,288	9,480	10,341	9,528									
YOUNG DEEP UNIT #16	42,077	74,358	3,428						0						0									
YOUNG DEEP UNIT #17	280,328	443,208	11,634	13,271	9,843	8,068	4,010	3,599	2,781	40,188	31,329	26,812	11,720	7,902	6,761									
YOUNG DEEP UNIT #18	20,021	42,533	9,464	2,444	5,169	3,650	3,490	2,801	2,467	493	11,275	7,315	7,292	7,907	8,251									
YOUNG DEEP UNIT #20	115,495	211,675	13,977	38,285	20,356	17,206	14,665	12,108	6,766	48,150	46,356	48,604	30,516	22,885	14,804									
YOUNG DEEP UNIT #21	62,150	167,143	1,709	0	0	0	19,297	29,186	13,630	0	0	0	20,867	63,576	82,700									
YOUNG DEEP UNIT #22	94,608	146,644	14,026	4,223	3,132	2,704	3,385	3,120	4,870	6,207	4,838	4,536	9,643	10,307	15,451									
YOUNG DEEP UNIT #23	78,440	95,945	14,490	9,046	7,203	5,876	5,387	4,725	4,546	12,786	9,088	8,402	8,594	7,737	9,520									
YOUNG DEEP UNIT #24	121,993	114,921	546,785	30,514	18,336	17,576	12,608	8,540	8,446	30,725	16,315	13,144	14,275	6,922	10,492									
YOUNG DEEP UNIT #25	43,033	159,007	496						41,547						154,648									
YOUNG DEEP UNIT #26	121,954	220,586	9,642	34,373	26,447	19,665	14,359	8,147	7,632	46,068	59,500	44,624	27,685	14,324	20,118									
YOUNG DEEP UNIT #28	47,398	40,255	48,925	0	15,872	12,518	8,209	5,982	5,051	0	9,160	8,886	6,869	7,462	7,878									
YOUNG DEEP UNIT #29	31,209	55,075	6,259	5,066	7,702	5,396	4,880	4,215	3,950	4,323	14,460	10,100	6,243	10,819	9,130									
YOUNG DEEP UNIT #30	21,638	112,078	395					1,210	26,976						121,773									
YOUNG DEEP UNIT #31	21,949	38,295	6,827	5,752	4,587	3,333	3,093	2,720	2,464	2,800	13,050	6,053	4,994	4,422	6,976									
YOUNG DEEP UNIT #32	14,686	53,495	553						14,686						53,495									
YOUNG DEEP UNIT #33	12,061	33,338	337						12,061						33,338									
YOUNG DEEP UNIT #34	78,711	102,825	73,384	166	34,836	18,451	10,915	7,705	6,638	0	29,155	26,055	18,873	14,559	14,183									
YOUNG DEEP UNIT #36	1,959	2,565	555						1,959						2,565									
YOUNG DEEP UNIT #37	307	479	428						307						479									
YOUNG DEEP 3 FEDERAL #1	381,536	333,065	459,535																					
YOUNG DEEP 3 FEDERAL #2	31,519	49,250	131,169	1,321	1,003	918	1,564	1,477	1,387	1,668	1,660	1,202	1,749	1,613	1,804									
YOUNG DEEP 3 FEDERAL #3	58,299	84,346	15,139	1,677	1,259	1,209	2,371	2,922	709	3,014	2,977	2,412	5,744	5,196	1,338									
YOUNG DEEP 3 FEDERAL #4	446,166	444,772	1,330,658	26,132	18,297	15,856	10,375	9,213	8,584	32,445	30,373	21,206	16,076	14,470	16,212									
YOUNG DEEP 3 FEDERAL #5	170,879	316,507	17,027	7,592	5,871	5,275	4,769	4,432	4,252	9,232	9,427	6,695	3,556	3,228	3,686									
YOUNG DEEP 4 FEDERAL #1	130,507	222,957	1,573	3,168	2,631	1,900	70			11,928	10,565	8,483	790											
YOUNG DEEP 4 FEDERAL #2	594,867	638,424	2,086,493	9,908	7,632	4,350	0	30,816	27,341	21,396	27,810	14,294	0	103,291	88,593									
YOUNG DEEP 4 FEDERAL #3	173,774	384,751	1,578	15,886	13,467	11,137	9,406	9,255	8,431	38,642	34,829	30,035	29,248	29,111	30,701									
YOUNG DEEP 4 FEDERAL #3	5,892,165	7,911,975	10,344,137	411,415	366,770	266,044	270,558	291,318	332,851	567,096	568,376	453,040	484,458	590,950	1,016,141									



Harvey E. Yates Company			
YOUNG DEEP UNIT			
Plan of Development			
T. Bates	Scale 1:24,000	3/8/85	

HEYCO

PETROLEUM PRODUCERS



Oil Conservation Division

RE

HARVEY E. YATES COMPANY

1996 Plan

P.O. BOX 1933

AM 8 52

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

February 27, 1996

D-unit letter
Thx 127

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088

Attention: William J. LeMay, Director

Re: Young Deep Unit
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1996 Plan of Development and
Operation

Ladies & Gentlemen:

Attached is a copy of the 1996 Plan of Development and Operation for the Young Deep Unit, with pertinent enclosures, which has been submitted to the Bureau of Land Management this date for approval. This covers the Bone Spring, Wolfcamp and Delaware Participating Areas.

Harvey E. Yates Company respectfully requests your approval of this Plan of Development as well.

Very truly yours,

Shari Darr
Land Manager

SAD/dlm
Enclosures

ydpd96cc.sam

HARVEY E. YATES COMPANY (YOUNG DEEP UNIT 1995 PRODUCTION)

	Life	Life	Life	1991's	1992's	1993's	1994's	1995's	1991's	1992's	1993's	1994's	1995's
	Cums	Cums	Cums	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total
Well Name	BO	MCF	BW	BO	BO	BO	BO	BO	MCF	MCF	MCF	MCF	MCF
Young Deep Unit #1	510151	431254	176410	95081	88856	49359	25650	25013	75464	51215	37242	57998	37517
Young Deep Unit #2	120638	110869	122532			1063	6181	4328			785	9792	8896
Young Deep Unit #4	50061	86562	90	2330	1707	1551	2566	1556	6354	4891	4393	6209	5572
Young Deep Unit #6	335985	329794	1929138	3804	2548	425	21488	23080	7253	8317	1243	37341	31836
Young Deep Unit #7	298899	277703	1364918	3548	2384	370	4653	28162	6985	7976	1121	6820	49833
Young Deep Unit #8	89227	93213	35228	2521	1915	1926	5222	3933	2845	3639	3121	7956	6308
Young Deep Unit #9	105452	210742	24580	4478	3346	3753	4037	3426	11234	14149	13339	11842	9723
Young Deep Unit #10	95343	172644	15737	6015	4599	6015	5016	3736	12856	17078	19926	14189	11262
Young Deep Unit #11	377307	514065	28371	21420	15584	13313	16752	9663	48007	36550	32220	36229	32337
Young Deep Unit #12	180947	157350	1225609	47224	29615	23420	22214	14946	39768	25994	19059	16723	11678
Young Deep Unit #13	157148	237109	8793	5840	4347	3351	17104	15703	17035	13342	11113	34062	31185
Young Deep Unit #14	107831	208720	13005	6097	4588	3880	3902	3717	21459	16980	15332	11083	8231
Young Deep Unit #15	66561	105973	4322	4233	3148	2530	2650	1889	7770	6078	5286	9480	10341
Young Deep Unit #17	277547	436447	11634	13271	9843	8068	4010	3599	40188	31329	26812	11720	7902
Young Deep Unit #18	17554	34282	8636	2444	5169	3650	3490	2801	493	11275	7315	7292	7907
Young Deep Unit #20	108729	196871	12147	38285	20356	17206	14665	12108	48150	46356	48604	30516	22885
Young Deep Unit #21	48483	84443	1709				19297	29186				20867	63576
Young Deep Unit #22	89738	131193	10409	4223	3132	2704	3355	3120	6207	4838	4536	9643	10807
Young Deep Unit #23	73894	86425	14490	9046	7203	5876	5387	4725	12786	9088	8402	8594	7737
Young Deep Unit #24	113547	104429	437898	30514	18326	17576	12608	8540	30725	16315	13144	14275	6922
Young Deep Unit #26	114323	200468	7507	34373	26447	19685	14359	8147	46068	59500	44624	27685	14324
Young Deep Unit #28	42581	32377	41632		15872	12518	8209	5982		9160	8886	6869	7462
Young Deep Unit #29	27259	45945	5654	5066	7702	5396	4880	4215	4323	14460	10100	6243	10819
Young Deep Unit #30	1210		266					1210					
Young Deep Unit #31	19485	31319	6827	5752	4587	3333	3093	2720	2800	13050	6053	4994	4422
Young Deep Unit #34	72073	88642	61766	166	34836	18451	10915	7705		29155	26055	18873	14559
Young Deep 3 Federal #2	30142	47446	392334	1321	1003	918	1564	1477	1688	1660	1202	1749	1613
Young Deep 3 Federal #3	57590	83008	29639	1677	1259	1209	2371	2922	3014	2977	2412	5744	5196
Young Deep 3 Federal #4	437582	428560	1047398	26132	18797	15586	10375	9213	32445	30373	21206	16076	14470
Young Deep 3 Federal #5	166627	312821	17027	7592	5871	5275	4769	4432	9232	9427	6895	3556	3228
Young Deep 4 Federal #1	130507	222957	1573	3168	2631	1900	70		11928	10565	8483	790	
Young Deep 4 Federal #2	567899	550160	2087006	9808	7632	4350		30810	21396	27810	14294		103291
Young Deep 4 Federal #3	165345	354189	1566	15886	13467	11137	9406	9255	38642	34829	30035	29248	29111
	5057665	6407380	9745861	411415	368770	266044	270558	291318	567096	568376	453040	484459	590960

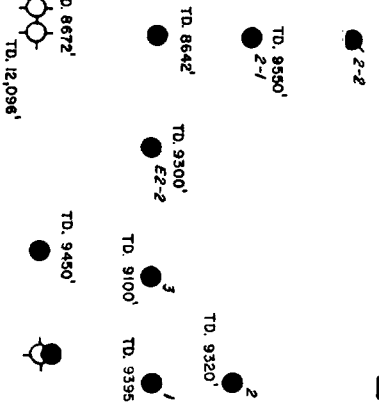
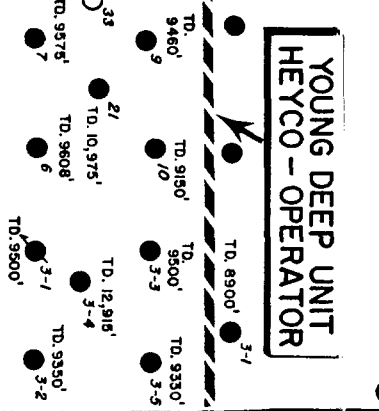
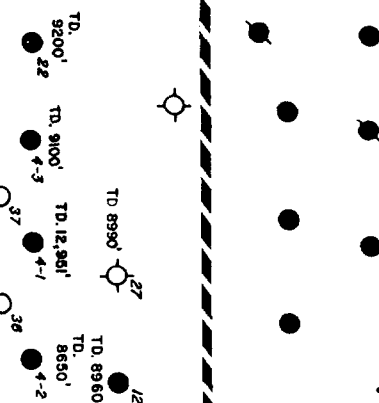
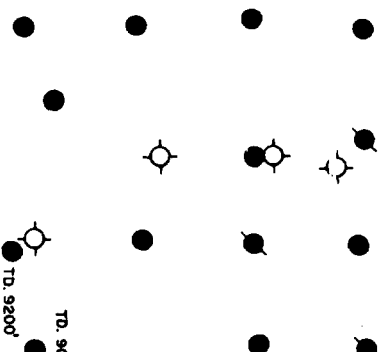
YOUNG DEEP UNIT HEYCO - OPERATOR

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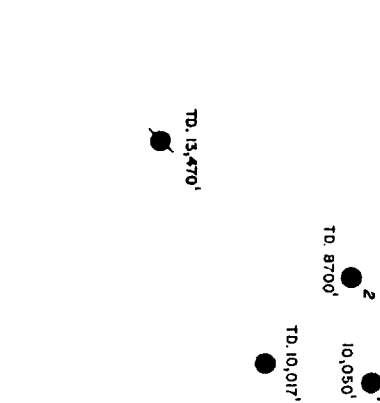
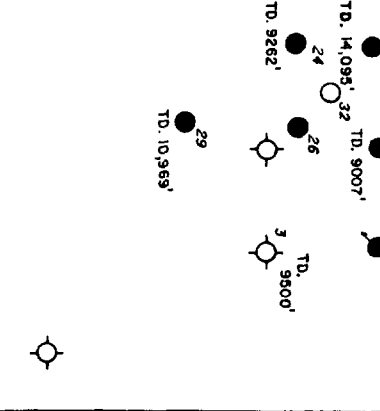
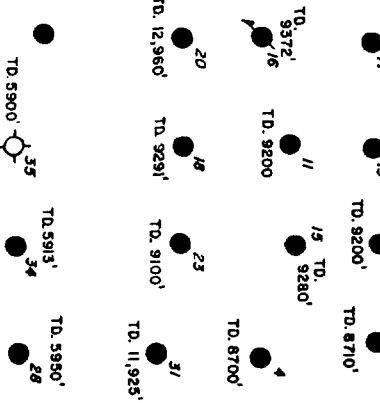
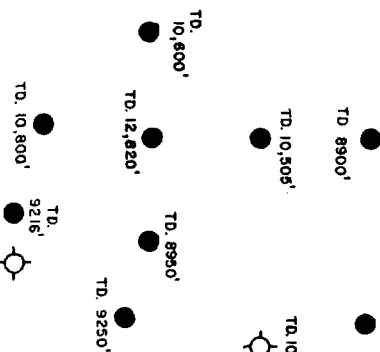


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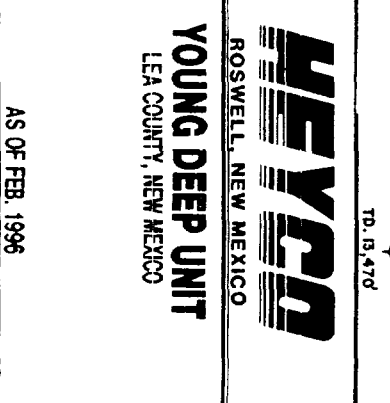
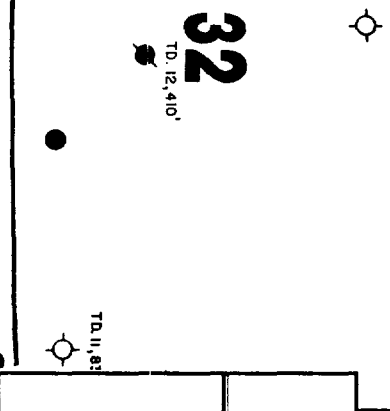
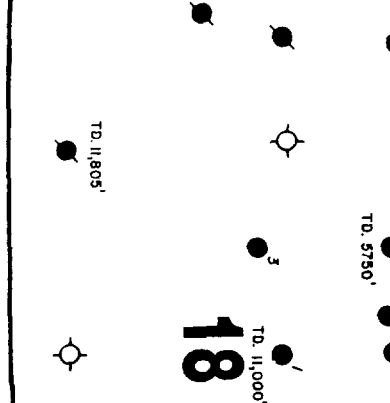
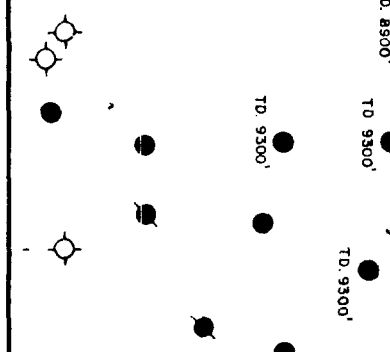


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HEYCO
ROSWELL, NEW MEXICO

YOUNG DEEP UNIT
LEA COUNTY, NEW MEXICO

AS OF FEB. 1996

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HEYCO

#6775
HARVEY E. YATES COMPANY

PETROLEUM PRODUCERS

RECEIVED

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW ME (ICO 88202-1933)

'93 MAR 1 AM 9 04

February 25, 1993

3-8 73
D-Unit letter
THU
1-7

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088

Attention: William J. LeMay, Director

Re: Young Deep Unit
Lea County, New Mexico
1992 Plans of Development
Bone Spring Participating Area
Wolfcamp Participating Area
Delaware Participating Area

Gentlemen:

Attached are the 1993 Plans of Development and Operation for the Young Deep Unit Bone Spring, Wolfcamp and Delaware Participating Areas, with pertinent enclosures.

Harvey E. Yates Company respectfully requests your approval of these Plans of Development.

Very truly yours,

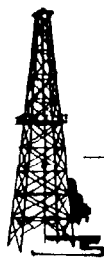

Shari Darr
Landman

SAD/dlm
Enclosures

ydupod93.oed/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P. O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 25, 1993

Bureau of Land Management
Roswell District Office
Post Office Box 2397
Roswell, NM 88202

Attention: Deputy Mineral Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-18-0001-18042
Lea County, New Mexico
1993 Plan of Development and
Operation - Wolfcamp P/A

Ladies and Gentlemen:

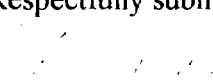
Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1993 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

Enclosed is a current map of the unit showing all existing wells. At this time, HEYCO has no plans to drill any new Wolfcamp wells in the unit in 1993.

The 1992 production figures for the Young Deep Unit are also enclosed. These figures include production from wells in the Bone Spring, Wolfcamp and Delaware Participating Areas.

Based on the information submitted herewith, Harvey E. Yates Company respectfully requests approval of this Plan of Development and Operation. If further data is needed, HEYCO will be glad to supply it.

Respectfully submitted,


Shari A. Darr
Landman

Enclosures

SAD/YDUW

xc: Commissioner of Public Lands (w/encl)

Oil Conservation Commission (w/encl), Attn: William J. LeMay, Director

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 25, 1993

Bureau of Land Management
Roswell District Office
Post Office Box 2397
Roswell, NM 88202

Attention: Deputy Mineral Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-18-0001-18042
Lea County, New Mexico
1993 Plan of Development and
Operation - Delaware P/A

Ladies and Gentlemen:

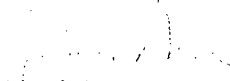
Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1993 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement

Enclosed is a current map of the unit showing all existing wells. At this time, HEYCO has no plans to drill any new Delaware wells in the unit in 1993.

The 1992 production figures for the Young Deep Unit are also enclosed. These figures include production from wells in the Bone Spring, Wolfcamp and Delaware Participating Areas.

Based on the information submitted herewith, Harvey E. Yates Company respectfully requests approval of this Plan of Development and Operation. If further data is needed, HEYCO will be glad to supply it.

Respectfully submitted,

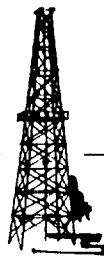

Shari A. Darr
Landman

Enclosures

xc: Commissioner of Public Lands (w/encl)
Oil Conservation Commission (w/encl), Attn: William J. LeMay, Director

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEV. MEXICO 88202-1933

February 25, 1993

Bureau of Land Management
Post Office Box 2397
Roswell, NM 88202

Attention: Deputy Mineral Manager for Oil and Gas

Re: Young Deep Unit
Contract #14-18-0001-18042
Lea County, New Mexico
1993 Plan of Development and
Operation - Bone Spring P/A

Ladies and Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1993 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

Enclosed is a current map of the unit showing all existing wells. At this time, HEYCO has no plans to drill any Bone Spring wells in the unit; however, it does plan to convert the #16 to a water injection well sometime in 1993. The remaining injectors (wells #2, #5, and #3-1) will continue to be water injection wells.

The 1992 production figures for the Young Deep Unit are also enclosed. These figures include production from wells in the Bone Spring, Wolfcamp and Delaware Participating Areas.

Based on the information submitted herewith, Harvey E. Yates Company respectfully requests approval of this Plan of Development and Operation. If further data is needed, HEYCO will be glad to supply it.

Respectfully submitted,

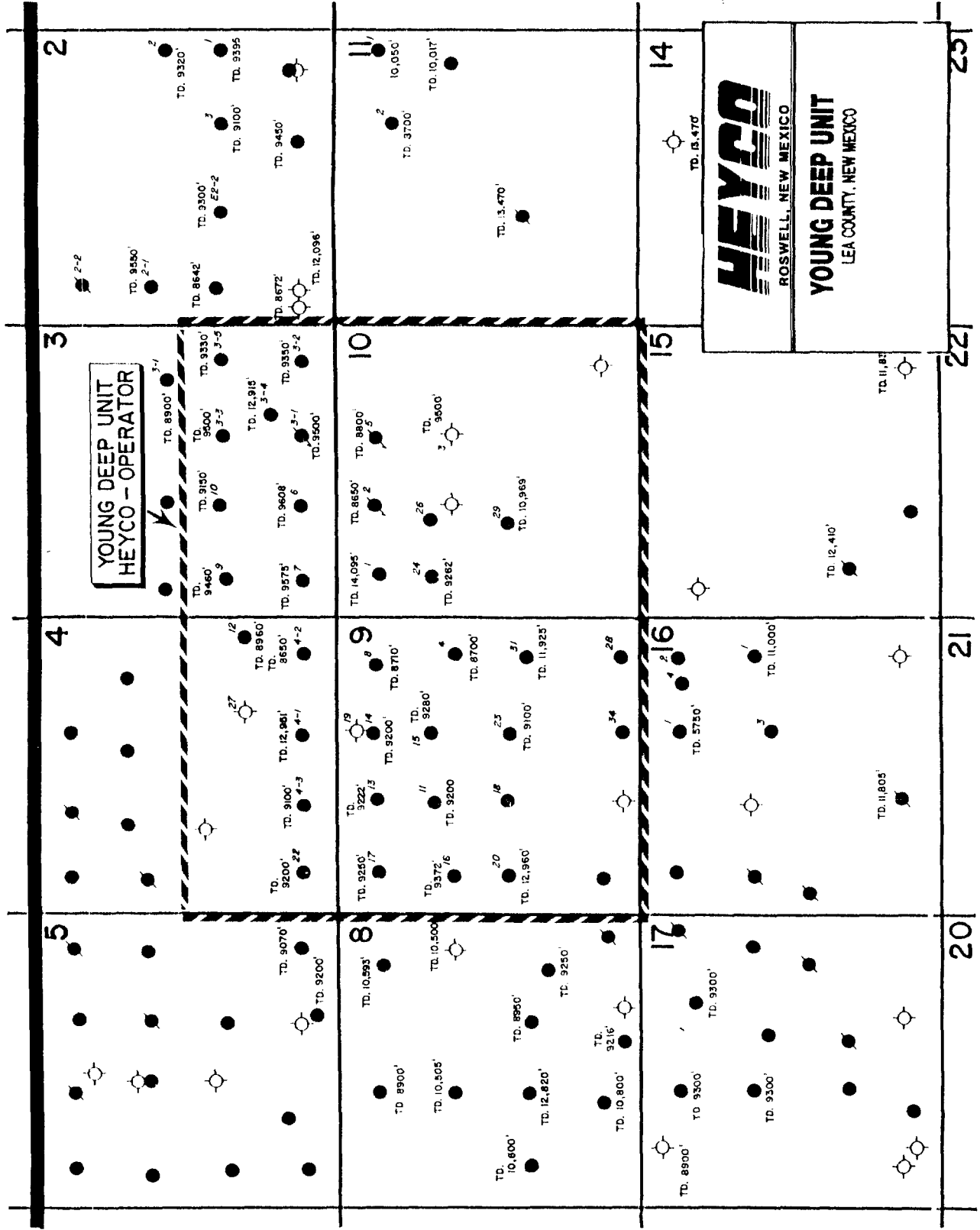

Shari A. Darr
Landman

Enclosures

SAD/YDUBS

xc: Commissioner of Public Lands (w/encl)

Oil Conservation Commission (w/encl), Attn: William J. LeMay, Director



HEYCO

PETROLEUM PRODUCERS



#6775
HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

December 30, 1991

OIL CONSERVATION DIVISION

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088

Attention: Mr. William J. LeMay

Re: Young Deep Unit
Lea County, New Mexico
Wolfcamp Participating Area

UNIT LETTER
THX
R1

Gentlemen:

The Harvey E. Yates Company (HEYCO) Young Deep Unit #1 well has been recompleted as a Wolfcamp producer, and is now making in excess of 400 BOPD and 400 MCFPD. We were required by the Bureau of Land Management to apply for a Wolfcamp Participating Area. HEYCO accordingly submitted an application, accompanied by supporting data, and the participating area was approved by the BLM, effective September 1, 1991. Accordingly, we are furnishing the following for your information and approval:

1. Copy of BLM letter dated November 4, 1991, granting their approval of the Wolfcamp Participating Area as outlined in their letter.
2. Copy of HEYCO's application letter dated October 25, 1991, with BLM approval stamp affixed (Page 2).
3. Copy of Exhibit "A", land plat of the Young Deep Unit, with the participating area outlined in turquoise blue.
4. Copy of Exhibit "B", being a schedule of those tracts committed to the unit that fall within the participating area. This exhibit sets out the various kinds and percentages of ownership under each tract.
5. Copy of Exhibit "C" showing participating acres and percentage of participation of each tract in the Wolfcamp Participating Area.
6. Copy of Structure Map/Porosity Isopach Map which delineates the boundaries of the Wolfcamp reservoir under this unit.

We would appreciate like approval by the Oil Conservation Division. A set of these data has also been furnished to the Commissioner of Public Lands.

Yours very truly,

Rosemary T. Avery
Rosemary T. Avery
Senior Landman

RTA/sm
Enclosures
yduwfcpcd.ocd/LL

NOV 05 1991



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Roswell District Office
P.O. Box 1397
Roswell, New Mexico 88202-1397

TAKE
PRIDE IN
AMERICA

IN REPLY
REFER TO:

891018042-A
3180 (065)

Harvey E. Yates Company
Attention: Ms. Rosemary A.
P. O. Box 1933
One Sunwest Centre
Roswell, New Mexico 88202-1933

NOV 04 1991

Re: Young Deep Unit Area, Lea County, New Mexico
First Revision of the Wolfcamp Participating Area.

Dear Ms. Avery:

This office is in receipt of your October 25, 1991, application, requesting the approval of the revision to the Initial Wolfcamp Participating Area for the Young Deep Unit Area, Lea County, New Mexico. As was discussed with your personnel at our office on October 1, 1991, the request for the deletion of acreage is based on the failure of completion attempts to obtain production from the Wolfcamp Formation from the following three wells: the No. 20 Young Deep Unit well located in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of sec. 9, the No. 31 Young Deep Unit well located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of sec. 9 and the No. 29 Young Deep Unit well located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of sec. 10, T. 18 S., R. 32 E., NMPM, Lea County, New Mexico and the introduction of new geologic information obtained from the drilling of these wells. As was discussed with your geologist at our meeting, the new geologic data indicates that the development of the Wolfcamp reservoirs seem to be dependent on two conditions; the development of fracture porosity and the presence of structural nosing. Based on these factors, an economic net pay cutoff of 20 ft. and the dry holes, another geologic map was submitted reflecting the recent data.

After reviewing all of the submitted data and the data in our files, we concur with your conclusions. Your application for the revision to the Initial Wolfcamp Participating Area is hereby approved and is effective September 1, 1991.

The lands to be deleted from the Wolfcamp Participating Area are as follows:

T. 18 S., R. 32 E., NMPM

sec. 4, N $\frac{1}{2}$ S $\frac{1}{2}$ and the S $\frac{1}{2}$ SW $\frac{1}{4}$;
sec. 9, W $\frac{1}{2}$ W $\frac{1}{2}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$
and NE $\frac{1}{4}$ SE $\frac{1}{4}$;
sec. 10, NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ and S $\frac{1}{2}$.

containing 1,000 acres more or less

As a result of this revision to the Initial Wolfcamp Participating Area the lands contained in Participating area are as follows:

T. 18 S., R. 32 E., NMPM

sec. 3, S $\frac{1}{2}$;
 sec. 4, S $\frac{1}{2}$ SE $\frac{1}{4}$;
 sec. 9, NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ and
 NW $\frac{1}{4}$ SE $\frac{1}{4}$;
 sec. 10, NW $\frac{1}{4}$ NE $\frac{1}{4}$ and NW $\frac{1}{4}$.

containing 920 acres more or less

Some of the lands contained within the Wolfcamp Participating Area are not committed to the unit and should be reporting on a lease basis. These lands are described as follows:

T. 18 S., R. 32 E., NMPM

sec. 3, SE $\frac{1}{4}$;
 sec. 4, S $\frac{1}{2}$ SE $\frac{1}{4}$.

containing 240 acres more or less

As outlined above the revised Wolfcamp Participating Area contains 680 acres of land committed to the unit and 240 acres of land which is not committed to the unit.

Copies of the approved applications are being distributed to the appropriate offices and one copy is return herewith. You are requested to furnish all interested principals with the appropriate evidence of this approval.

If you have any questions, please call John S. Simitz or the Division of Minerals at (505) 622-9042.

Sincerely,



Armando A. Lopez
 Assistant District Manager, Minerals

Enclosure

HEYCO

PETROLEUM PRODUCERS



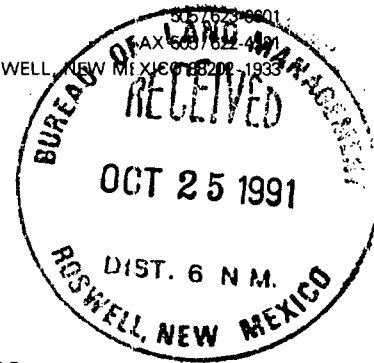
HARVEY E. YATES COMPANY

P.O. BOX 1933

October 25, 1991

ONE SUNWEST CENTRE

ROSWELL, NEW MEXICO 88201-1933



United States Department of the Interior
Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88202

Attention: John Simitz

Re: Young Deep Unit Area
Lea County, New Mexico
No. 14-08-0001-18041
Revised Participating Area
For the Wolfcamp Formation

Gentlemen:

Please refer to earlier correspondence regarding approval of the Initial Participating Area for the Wolfcamp Formation, including the BLM's letter of March 19, 1991, granting such approval, and your letter of May 1, 1991, to Mineral Management Service confirming that the initial Wolfcamp participation area covered 1,640 acres, and your visit to HEYCO on October 24, 1991.

As a result of drilling and testing the Wolfcamp formation subsequent to the approval of the initial participating area, HEYCO has determined that the Wolfcamp reservoir is smaller in extent than originally believed. In our conferences with you HEYCO agreed to contract the Wolfcamp participating area we had earlier requested to an outline more nearly conforming to the perceived size and shape of the Wolfcamp reservoir. Accordingly, HEYCO is asking approval for a revised Wolfcamp participating area covering the following committed lands:

Township 18-South, Range 32-East, N.M.P.M.

Section 3: SW/4
Section 9: NE/4; E/2 NW/4,
NW/4 SE/4, NE/4 SW/4
Section 10: NW/4, NW/4 NE/4

Containing 680.00 acres, more or less, committed to the unit.

The following exhibits are enclosed (in triplicate) for your information and files:

1. Revised Exhibit "A" (land plat) showing the outline of the Young Deep Unit, the leases and tract numbers, and with the Wolfcamp participating area outlined in turquoise blue. Tracts 7 and 22 ("hatched") are shown as uncommitted to the unit.

2. Revised Exhibit "B" showing the tracts included within the Wolfcamp Participating Area, including leasehold and working interest ownership, as well as lease number and royalty rate for each tract.
3. Exhibit "C" showing the percentage of participation by tracts committed to the unit agreement.
4. Structure/isopach map of the Young Deep Unit which delineates the prospective area (the participating area), and indicates the wells which turned out not to be commercial Wolfcamp producers.

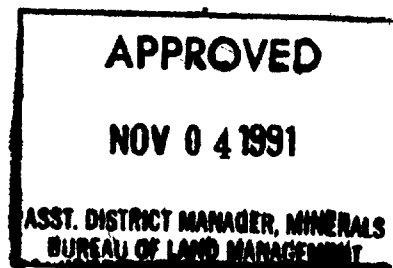
HEYCO respectfully requests approval from the Bureau of Land Management for this revised participating area. We would appreciate your informing us as soon as possible of your approval so that we can prepare appropriate division orders. As we mentioned earlier, we would like to have September 1, 1991, as the effective date of this Participating Area so that we can get division orders and run checks out to the overriding royalty owners as soon as possible.

Very truly yours,

Rosemary Avery
Rosemary T. Avery
Senior Landman

RTA/sm
Enclosures

yduwcpa2.rev/LL



HEYCO

PETROLEUM PRODUCERS



OIL CONSERVATION

RECEIVED

HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

1992 FEB 27 AM 9 07

3-5-92

D-
Unit letter
back
Ry

February 28, 1992

Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501-2088

Attention: William J. LeMay, Director

Re: Young Deep Unit
Lea County, New Mexico
1992 Plans of Development
Bone Spring P/A
Wolfcamp P/A

Gentlemen:

Attached are the 1992 Plans of Development and Operation for the Young Deep Unit Bone Spring Participating Area and the Wolfcamp Participating Area, with pertinent enclosures.

Harvey E. Yates Company respectfully requests your approval of these Plans of Development.

Very truly yours,

Melissa Randle

Melissa Randle
Landman

MVR/dlm
Enclosures

ydupod92.ocd/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 20, 1992

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1992 Plan of Development and
Operation - Bone Spring P/A

Ladies & Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1992 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

In this regard, we are enclosing a current unit map showing all existing wells, plus locations for the two new wells HEYCO is projecting for 1992. Well #1 is now a Wolfcamp completion; Well #34 is a Delaware completion. All of the remaining wells are completed in the Bone Spring formation, with the three water injection wells (Nos. 2, 5, & "3" Fed. #1).

In 1991, we drilled four wells in the unit as follows:

<u>Well No.</u>	<u>Completion Zone</u>	<u>Unit Letter/Sec.</u>
31	Bone Spring	I/9
29	Bone Spring	K/10
18	Bone Spring	K/9
34	Delaware	O/9

Well #32 on last year's Plan of Development was not drilled and Well #34 was substituted for the #30 location.

The two wells contemplated for 1992 are:

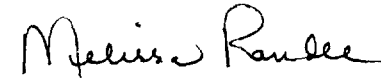
<u>Well No.</u>	<u>Objective/Depth</u>	<u>Location</u>
28	Delaware 5,900'	Unit Letter P, Sec. 9
35	Delaware 5,900'	Unit Letter N, Sec. 9

Also enclosed is production data for all of the wells in the unit, as prepared by HEYCO engineers.

No other recompletions were done.

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,



Melissa Randle
Landman

MVR/dlm
Enclosures

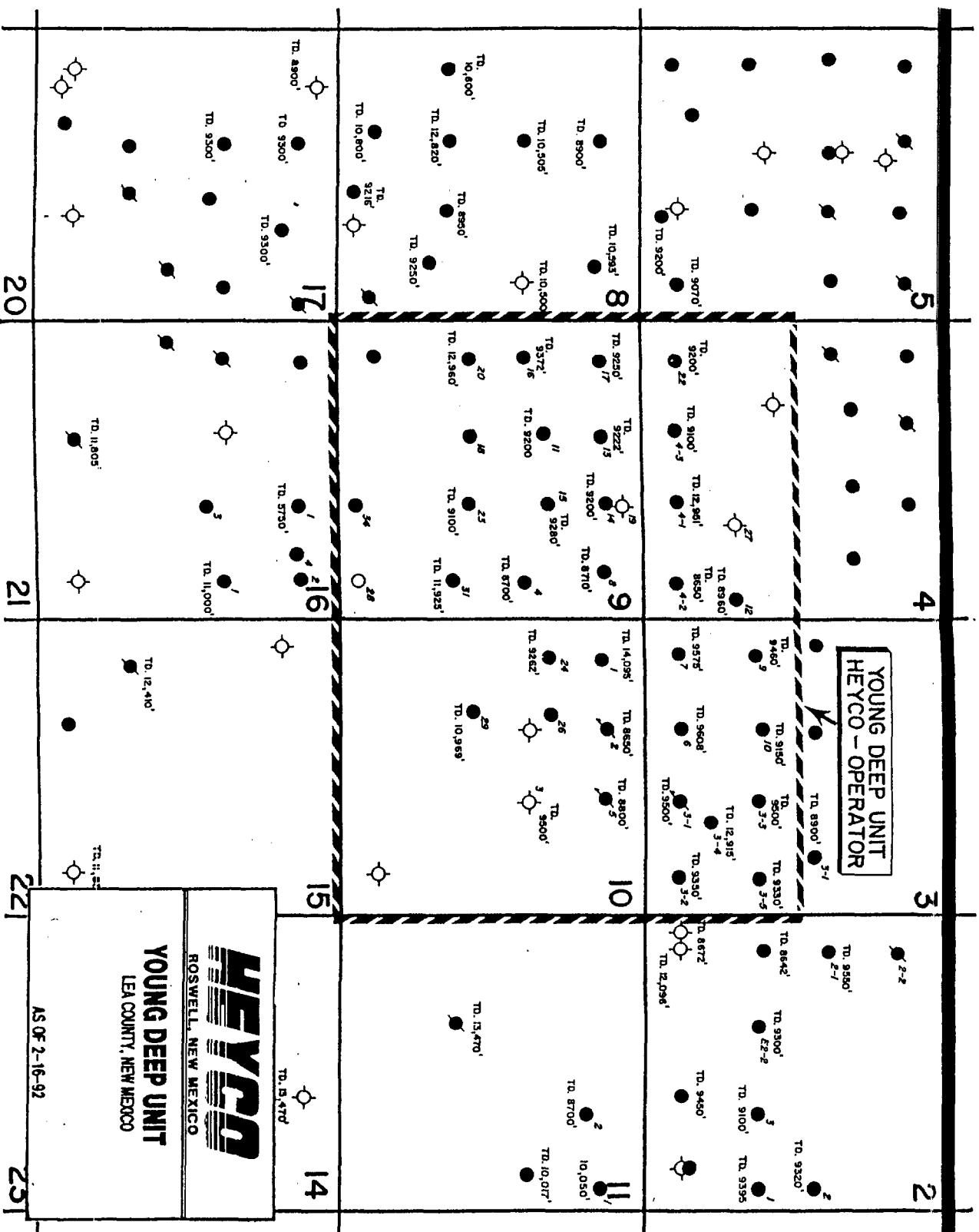
ydupod92.bsp/LL

xc: Commissioner of Public Lands (w/encl.)
P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Attn: Susan Howarth

✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay, Director

HARVEY E. YATES COMPANY
YOUNG DEEP UNIT PRODUCTION REPORT
FOR 1991
by Ray F. Nokes
2/12/92

NO.	FILE	WELL NAME	YRLY BO	YRLY MCF	YRLY BW	DAYS UP
1	97560-001	YOUNG DEEP UNIT #1	95,081	75,464	3,101	343
2	97560-004	YOUNG DEEP UNIT #4	2,330	6,354	0	357
3	97560-006	YOUNG DEEP UNIT #6	3,804	7,253	210,260	354
4	97560-007	YOUNG DEEP UNIT #7	3,548	6,985	186,996	354
5	97560-008	YOUNG DEEP UNIT #8	2,521	2,846	0	352
6	97560-009	YOUNG DEEP UNIT #9	4,478	11,234	0	348
7	97560-010	YOUNG DEEP UNIT #10	6,015	12,856	0	335
8	97560-011	YOUNG DEEP UNIT #11	21,420	48,007	2,362	348
9	97560-012	YOUNG DEEP UNIT #12	47,224	39,768	141,593	338
10	97560-013	YOUNG DEEP UNIT #13	5,840	17,035	0	348
11	97560-014	YOUNG DEEP UNIT #14	6,097	21,459	1,689	344
12	97560-015	YOUNG DEEP UNIT #15	4,233	7,770	0	349
13	97560-016	YOUNG DEEP UNIT #16	1,301	6,215	646	349
14	97560-017	YOUNG DEEP UNIT #17	13,271	40,188	1,066	347
15	97560-018	YOUNG DEEP UNIT #18	2,444	493	2,974	77
16	97560-020	YOUNG DEEP UNIT #20	38,285	48,150	3,915	332
17	97560-022	YOUNG DEEP UNIT #22	4,223	6,207	1,703	348
18	97560-023	YOUNG DEEP UNIT #23	9,046	12,786	106	336
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20	97560-026	YOUNG DEEP UNIT #26	34,373	46,068	0	348
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22	97560-031	YOUNG DEEP UNIT #31	5,752	2,800	3,100	261
23	97560-034	YOUNG DEEP UNIT #34	1,992	0	3,792	96
24	97561-002	YOUNG DEEP 3 FEDERAL #2	1,321	1,668	12,702	344
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27	97561-005	YOUNG DEEP 3 FEDERAL #5	7,592	9,232	0	327
28	97562-001	YOUNG DEEP 4 FEDERAL #1	3,168	11,928	185	344
29	97562-002	YOUNG DEEP 4 FEDERAL #2	9,908	21,396	200,182	346
30	97562-003	YOUNG DEEP 4 FEDERAL #3	15,886	38,642	84	341
TOTALS			414,542	573,311	940,449	



HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

February 20, 1992

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1992 Plan of Development and
Operation - Wolfcamp P/A

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In this regard, we are enclosing a current unit map showing all existing wells, plus locations for the two new wells HEYCO is projecting for 1992. Well #1 is now a Wolfcamp completion; Well #34 is a Delaware completion. All of the remaining wells are completed in the Bone Spring formation, with the three water injection wells (Nos. 2, 5, & "3" Fed. #1).

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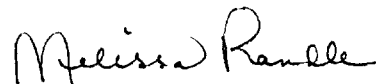
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Also enclosed is production data for all of the wells in the unit, as prepared by HEYCO engineers.

No other recompletions were done.

Based on the information submitted herewith, HEYCO respectfully requests that the Bureau of Land Management approve this Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,



Melissa Randle
Landman

MVR/dlm
Enclosures

ydupod92.wfc/LL

xc: Commissioner of Public Lands (w/encl.)
P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Attn: Susan Howarth

✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay, Director

PRODUCTION PLOT

FILE NAME: 97560-001

WELL NAME: YOUNG DEEP UNIT #1

FIELD: YOUNG WOLFCAMP

CUMULATIVE PRODUCTION:

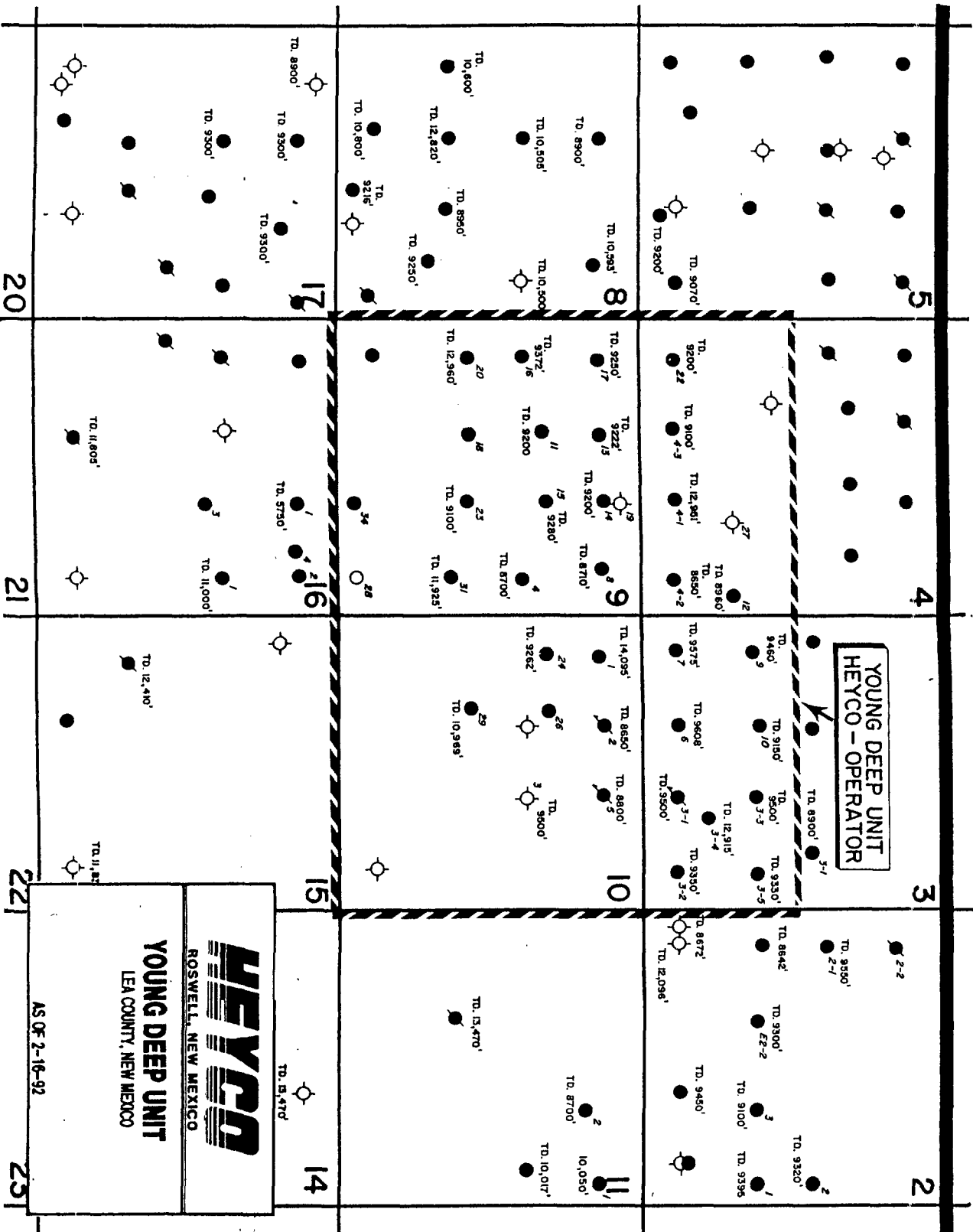
BO	MCF	BW	GOR
320,973	247,282	162,216	770

PRIOR CUMS.	BO/YR	MCF/YR	BW/YR
1980	17,740	29,514	29,514
1981	72,774	42,673	0

	MO. / YR.	BO/MO.	MCF/MO.	BW/MO.	DAYS	GOR	OIL CUMS	GAS CUMS
40	Jan-91	9,506	6,603	93	31	695	235,398	178,421
41	Feb-91	6,058	5,964	120	28	984	241,456	184,385
42	Mar-91	5,712	4,929	92	31	863	247,168	189,314
43	Apr-91	6,320	4,000	504	25	633	253,488	193,314
44	May-91	8,727	10,168	282	31	1,165	262,215	203,482
45	Jun-91	9,362	6,580	236	28	703	271,577	210,062
46	Jul-91	7,925	7,250	283	29	915	279,502	217,312
47	Aug-91	8,037	5,896	254	28	734	287,539	223,208
48	Sep-91	6,501	6,974	252	27	1,073	294,040	230,182
49	Oct-91	6,774	4,868	227	28	719	300,814	235,050
50	Nov-91	9,114	8,062	336	28	885	309,928	243,112
51	Dec-91	11,045	4,170	422	29	378	320,973	247,282
52	Jan-92					0	320,973	247,282
53	Feb-92					0	320,973	247,282
54	Mar-92					0	320,973	247,282
55	Apr-92					0	320,973	247,282
56	May-92					0	320,973	247,282
57	Jun-92					0	320,973	247,282
58	Jul-92					0	320,973	247,282
59	Aug-92					0	320,973	247,282
60	Sep-92					0	320,973	247,282
61	Oct-92					0	320,973	247,282
62	Nov-92					0	320,973	247,282
63	Dec-92					0	320,973	247,282

HARVEY E. YATES COMPANY
YOUNG DEEP UNIT PRODUCTION REPORT
FOR 1991
by Ray F. Nokes
2/12/92

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30	97562-003	YOUNG DEEP 4 FEDERAL #3	15,886	38,642	84	341
TOTALS			414,542	573,311	940,449	



YOUNG DEEP UNIT
HEYCO - OPERATOR

HEYCO
ROSWELL, NEW MEXICO
YOUNG DEEP UNIT
LEA COUNTY, NEW MEXICO

AS OF 2-16-92

EXHIBIT B

Revised 10/25/91

REVISED WOLFCAMP FORMATION PARTICIPATING AREA
YOUNG DEEP UNIT AGREEMENT-LEA COUNTY, NEW MEXICO
WORKING INTEREST OWNERSHIP BELOW 5,000 FEET
AS OF SEPTEMBER 1, 1991

TRACT NO.	LAND DESCRIPTION	NUMBER OF ACRES	SERIAL # & LEASE EXPIRATION	BASIC ROYALTY	LESSEE OF RECORD(%)	ORRI & PROD. PYMTS.	WORKING INTEREST OWNERSHIP (Decimal)
3.	Sec. 9: E/2 NE/4, NE/4 SW/4	120.00	LC-064009 (d) HBU	USA Sched. D	Global Nevada-Galaxy I. Ltd. 50% Chevron, USA 25% Patricia Brunson 4.166666% Vivian Brunson 4.166666% Freda Charlesworth 4.166666% Jim Charlesworth 4.166667% Tommye C. Ewing 8.833335%		
					Global-Galaxy Chevron USA, Inc. HEYCO Yates Energy Yates Petroleum Yates Drilling Est. of Martin Yates Est. of Lillie Yates Cibola Energy MW Petroleum Patricia Brunson Vivian Brunson Freda Charlesworth Jim Charlesworth Tommye C. Ewing	.50000000 .25000000 .06400384 .03133064 .00438229 .00328672 .00109557 .00109557 .00665844 .01314693 .02083333 .02083333 .02083333 .02083334 .02083334 .04166667	

TRACT NO.	LAND DESCRIPTION	NUMBER OF ACRES	SERIAL # & LEASE EXPIRATION	BASIC ROYALTY	LESSEE OF RECORD (%)	ORRI & PROD. PYMTS.	WORKING INTEREST OWNERSHIP (Decimal)
8.	Sec. 9 : W/2 NE/4,	80.00	NM-9018 HBP	USA Sched. D	Conoco	3.00%	Conoco HEYCO Yates Energy Yates Petroleum Est. of Martin Yates III Est. of Lillie M. Yates Yates Drilling Cibola Energy MW Petroleum .50000000 .25601536 .12532256 .01752916 .00438228 .00438229 .01314687 .02663377 .05258771
9.	Sec. 3 : SW/4	160.00	NM-11118 HBP	USA 12.5%	HEYCO 57.085077% Yates Energy 27.943823% Cibola Energy 14.971100%	6.00%	HEYCO Explorers Pet. Spiral, Inc. F. G. Yates, Inc. Yates Energy Cibola Energy LDY Corporation James Yates, Inc. Colkelan Corp. .39959556 .04491428 .03891814 .04491428 .19560676 .14971198 .03891814 .04371043 .04371043
10.	Sec. 10 : SW/4 NW/4	40.00	NM-12567 HBU	USA 12.5%	Yates Drilling Company	5.0%	Yates Drilling 1.00000000

TRACT NO.	LAND DESCRIPTION	NUMBER OF ACRES	SERIAL # & LEASE EXPIRATION	BASIC ROYALTY	LESSEE OF RECORD(%)	ORRI & PROD. PYMTS.	WORKING INTEREST OWNERSHIP (Decimal)
12.	Sec. 10: NW/4 NW/4, SE/4 NW/4	80.00	NM-14789 (a) HBU	USA 12.5%	HEYCO 57.085077% Yates Energy 37.943823% Cibola Energy 14.971100%	20.0% (below 5,000')	HEYCO Cibola Energy Spiral, Inc. John Gates Yates Petroleum Est. of Martin Yates III Est. of Lillie M. Yates Yates Drilling MW Petroleum Yates Energy James H. Yates, Inc. Colkelan Corp. Explorers Pet. HEYCO Employees
13.	Sec. 9: NW/4 SE/4	40.00	NM-15905 HUB	USA 12.5%	MW Petroleum Corporation	5.00%	MW Petroleum 1.00000000
14.	Sec. 10: NW/4 NE/4	80.00	NM-16350 (a) HBP	USA 12.5%	HEYCO 57.085077% Yates Energy 27.943823% Cibola Energy 14.971100%	7.25%	HEYCO Explorers Pet. Spiral, Inc. F. G. Yates, Inc. Yates Energy Cibola Energy LDY Corporation James Yates, Inc. Colkelan Corp.
16.	Sec. 9: E/2 NW/4	80.00	NM-40453 HBP	USA 12.5%	Chevron USA	5.0%	Chevron USA 1.00000000

TRACT NO.	LAND DESCRIPTION	NUMBER OF ACRES	SERIAL # & LEASE EXPIRATION	BASIC ROYALTY	LESSEE OF RECORD (%)	ORRI & PROD. PYMTS.	WORKING INTEREST OWNERSHIP (Decimal)
Committed Acres - 680.00, being 35.4167% of unit area							

EXHIBIT C

Revised October 25, 1991

REVISED WOLFCAMP FORMATION PARTICIPATING AREA
YOUNG DEEP UNIT AGREEMENT-LEA COUNTY, NEW MEXICO
TRACTS COMMITTED TO UNIT AGREEMENT
AS OF SEPTEMBER 1, 1991

TRACT NO.	LEASE NUMBER	LAND DESCRIPTION	PARTICIPATING ACRES	PERCENT OF PARTICIPATION	WORKING INTEREST OWNERSHIP (Decimal)
3.	LC-064009(d)	Sec. 9: E/2 NE/4, NE/4 NW/4	120.0	17.64710%	Global-Galaxy .50000000 Chevron USA, Inc. .25000000 HEYCO .06400384 Yates Energy .03133064 Yates Petroleum .00438229 Yates Drilling .00328672 Est. of Martin .00109557 Yates Est. of Lillie .00109557 Yates Cibola Energy .00665844 Amoco Production .01314693 Patricia Brunson .02083333 Vivian Brunson .02083333 Freda Charlesworth.02083333 Jim Charlesworth .02083334 Tommye C. Ewing .04166667

TRACT NO.	LEASE NUMBER	LAND DESCRIPTION	PARTICIPATING ACRES	PERCENT OF PARTICIPATION	WORKING INTEREST OWNERSHIP (Decimal)
8.	NM-9018	Sec. 9: W/2 NE/4	80.00	11.76470%	Conoco HEYCO Yates Energy Yates Petroleum Est. of Martin Yates III Est. of Lillie M. Yates Yates Drilling Cibola Energy MW Petroleum
					.50000000 .25601536 .12532256 .01752916 .00438228 .00438229 .01314687 .02663377 .05258771
9.	NM-11118	Sec. 3: SW/4	160.00	23.52950%	HEYCO Explorers Pet. Spiral, Inc. F. G. Yates, Inc. Yates Energy Cibola Energy LDY Corporation James Yates, Inc. Colkelan Corp.
					.39959556 .04491428 .03891814 .04491428 .19560676 .14971198 .03891814 .04371043 .04371043
10.	NM-12567	Sec. 10: SW/4 NW/4	40.00	5.88230%	Yates Drilling Company
					1.00000000

TRACT NO.	LEASE NUMBER	LAND DESCRIPTION	PARTICIPATING ACRES	PERCENT OF PARTICIPATION	WORKING INTEREST OWNERSHIP (Decimal)
12.	NM-14789(a)	Sec. 10: NW/4 NW/4, SE/4 NW/4	80.00	11.76470%	HEYCO Cibola Energy Spiral, Inc. John Gates Yates Petroleum Est. of Martin Yates III Est. of Lillie M. Yates Yates Drilling MW Petroleum Yates Energy James H. Yates Inc. HEYCO Employees Explorers Pet. Colkelan Corp.
					.60671653 .04408619 02000000 .12500000 .00438229 .00109557 .00109557 .00328672 .01314693 .10119020 02000000 .02000000 .02000000 .02000000
13.	NM-15905	Sec. 9: NW/4 SE/4	40.00	5.88230%	MW Petroleum
					1.00000000
14.	NM-16350(a)	Sec. 10: NW/4 NE/4, NE/4 NW/4	80.00	11.76470%	HEYCO Explorers Pet. Spiral, Inc. F. G. Yates, Inc. Yates Energy Cibola Energy LDV Corporation James Yates, Inc. Colkelan Corp.
					.39959556 .04491428 .03891814 .04491428 .19560676 .14971198 .03891814 .04371043 .04371043
16.	NM-40453	Sec. 9: E/2 NW/4	80.00	11.76470%	Chevron USA Inc.
					1.00000000

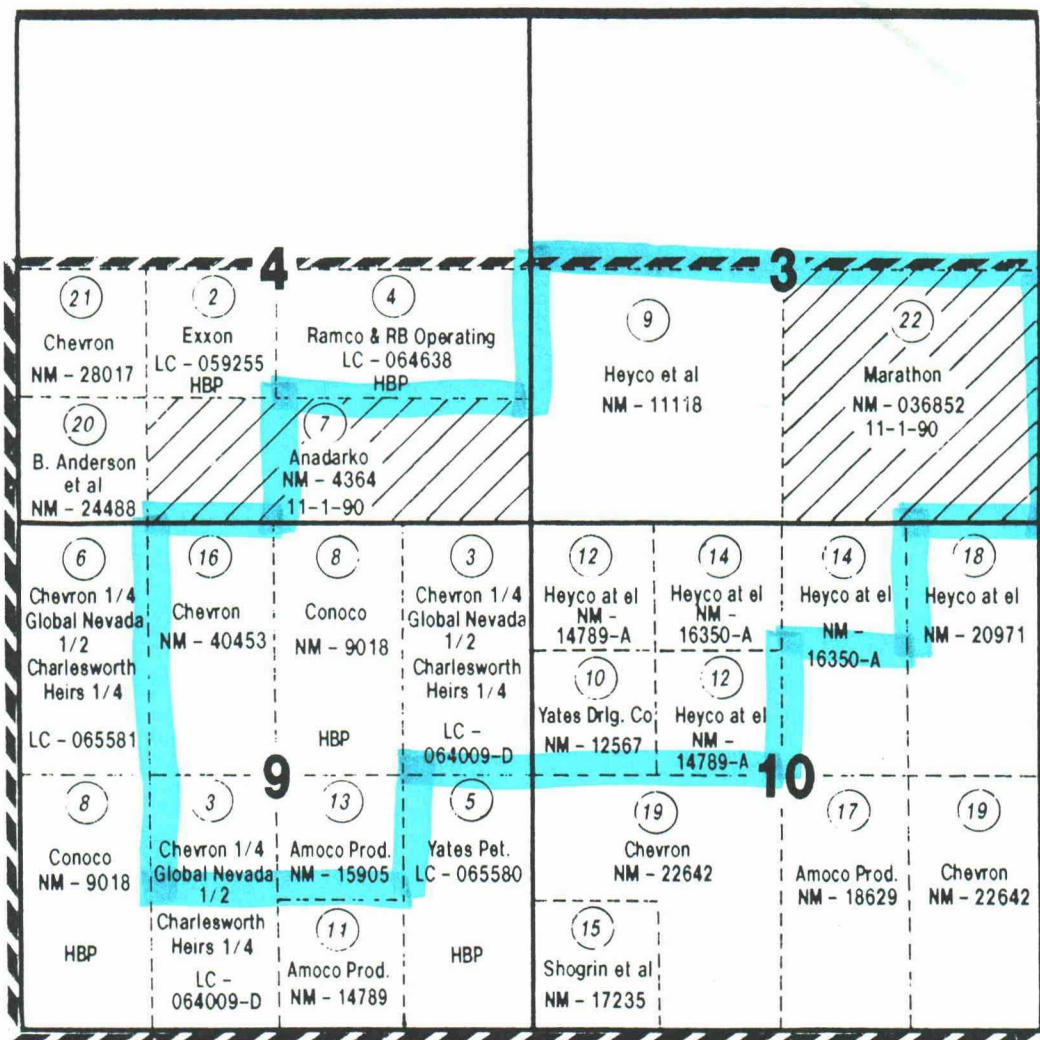
TOTAL COMMITTED ACRES

680.00

100.0000000%

R - 32 - E

T
18
S



UNIT OUTLINE

TRACT NUMBER

FEDERAL LANDS

1,920.00 acres, 100% of Unit Area

1,640.00 acres committed to unit agreement



PARTICIPATING AREA FOR THE WOLFCAMP FORMATION



LANDS NOT COMMITTED TO UNIT

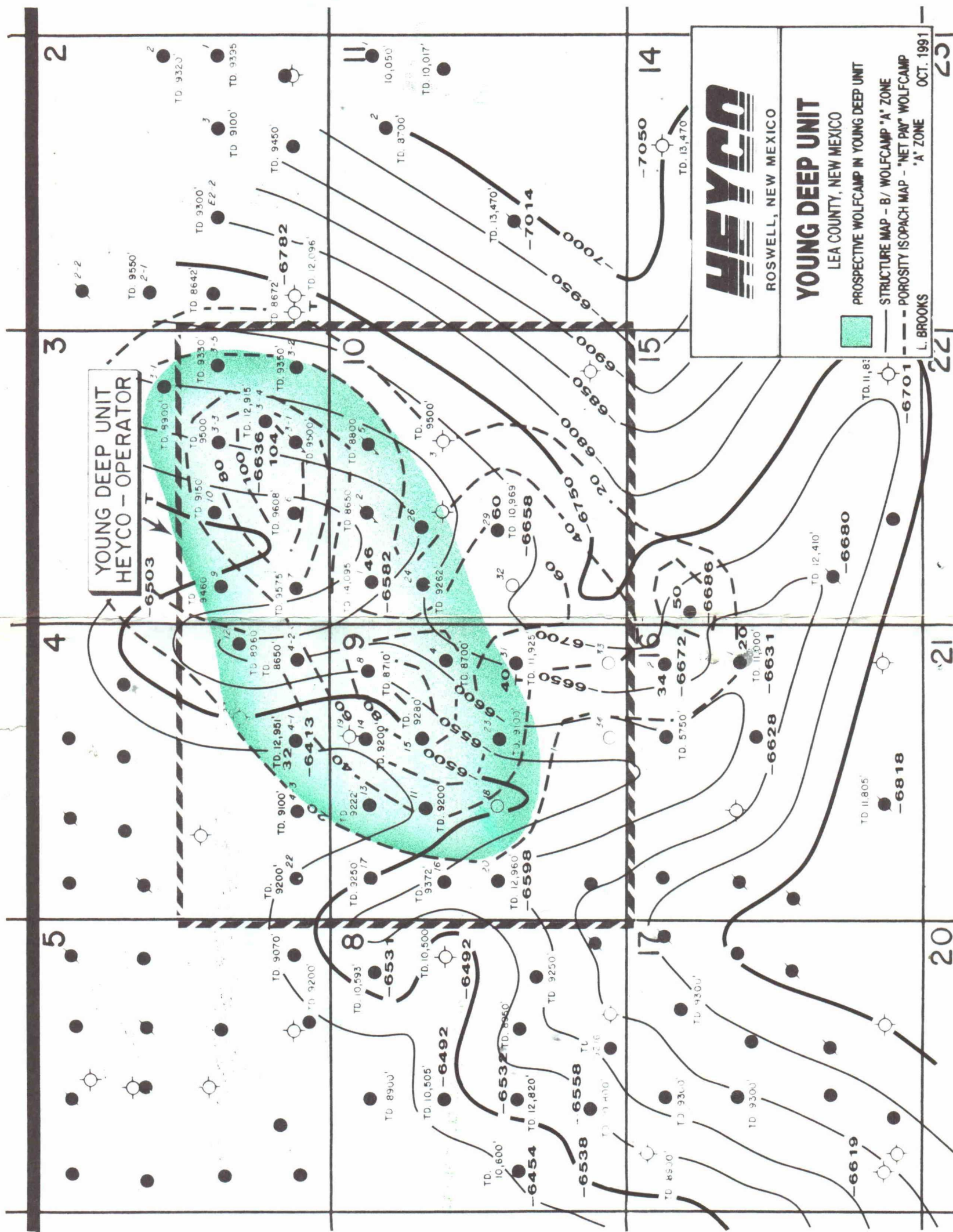
YOUNG DEEP UNIT AREA

LEA COUNTY, NEW MEXICO

SCALE: 1 = 2000'

SEPTEMBER 1, 1991

EXHIBIT "A"



DOA

ROSWELL, NEW MEXICO

YOUNG DEEP UNIT

LEA COUNTY, NEW MEXICO

PROSPECTIVE WOLFCAMP IN YOUNG DEEP UNIT

STRUCTURE MAP - B/ WOLF CAMP "A" ZONE

— — — POROSITY ISOPACH MAP - "NET PAY" WOLFCAMP

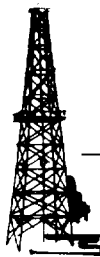
L. BROOKS

OCT. 1991

127

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

March 7, 1990

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: William J. LeMay, Director

46775
3-8-90
D-UNIT LETTER
THX
Ry

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1990 Plan of Development and
Operation

Gentlemen:

Attached is the 1990 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

If you find this Plan of Development and Operation satisfactory, please grant your approval. If you need more data, please let us know, and we will be glad to supply it.

Yours very truly,

Rosemary Avery
Rosemary T. Avery
Senior Landman

RTA/dlm
Enclosure

ydupd90o/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

1000 WEST 10TH STREET, SUITE 1000
DENVER, COLORADO 80202
303-733-1100
telex: 163100
cable: 163100

Bureau of Land Management
Reno Field Office
P.O. Box 117
Reno, New Mexico 88401

Attention: Deputy Mineral Manager
Oil and Gas

Re: Young Deep Unit
County #4-08-0001-1804
T.18S. R.11E, N.M.P.M.
Lin County, New Mexico
Production of Development and
Operation

Gentlemen:

Harvey E. Yates Company, Inc. (HCO), is the operator, pursuant to its 1980 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

In this regard, we are submitting a recent unit map showing all existing well plus locations for the four new wells HCO is submitting for 1991. All of the existing wells are completed in the Bone Spring formation, with the exception of the three water injection wells (1, 2 & 3) in the N.1/4 of Section 10.

The new wells contemplated in the 1991 plan are:

Well No.	Objective/Depth	Location
1	Bone Spring 9-1/2'	165.5' PBL & 3.0' TBL test
2	Stawp 11-4'	131.5' PBL & 6.0' TBL test
2-1	Bone Spring 9-1/2'	165.5' PBL & 6.0' TBL test
2-2	Bone Spring 9-1/2'	160.5' PBL & 1.5-0' TBL test

Well #2-2 is anticipated to be a commercial Stawp producer. We would, of course, supply the 3-1/2' water necessary for a Stawp production in this area.

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

March 7, 1990

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1990 Plan of Development and
Operation

Gentlemen:

Harvey E. Yates Company (HEYCO), as Unit Operator, submits this 1990 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

In this regard, we are enclosing a current unit map showing all existing wells, plus locations for the four new wells HEYCO is projecting for 1990. All of the existing wells are completed in the Bone Spring formation, with the exception of the three water injection wells (Nos. 1, 2 & 5) in the N/2 of Section 10.

The four wells contemplated for 1990 are:

<u>Well No.</u>	<u>Objective/Depth</u>	<u>Location</u>
12	Bone Spring 9,240'	1650' FSL & 330' FEL Sec. 4
20	Strawn 11,400'	2310' FSL & 660' FWL Sec. 9
24	Bone Spring 9,220'	1650' FNL & 660' FWL Sec. 10
25	Bone Spring 9,200'	2000' FSL & 1980' FWL Sec. 4

If well #20 turns out to be a commercial Strawn producer, we would, of course, supply the BLM with necessary data for a Strawn participating area.

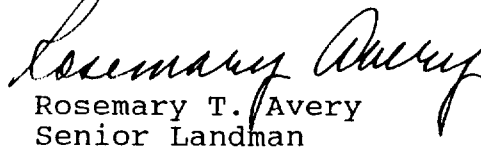
U. S. Dept of the Interior-BLM
March 7, 1990
Page 2

Also enclosed are production data in tabular form for all of the wells in the unit, as prepared by HEYCO engineers.

HEYCO is continuing its pressure maintenance program, and performs remedial work from time to time on existing wells, all in the Bone Spring formation. In 1989, the Young Deep Unit #17 was put on pump to pump the carbonate and second sand intervals.

Based on the information herewith submitted, HEYCO respectfully requests that the Bureau of Land Management approve this Plan of Development and Operation. We will be glad to supply further information if such is required.

Respectfully submitted,


Rosemary T. Avery
Senior Landman

RTA/dlm
Enclosures

ydupod90/LL

xc: Commissioner of Public Lands (w/encl.)
P. O. Box 1148
Santa Fe, New Mexico 87504-1148
Attn: Susan Howarth

✓ Oil Conservation Division (w/encl.)
P. O. Box 2088
Santa Fe, New Mexico 87501
Attn: William J. LeMay, Director

FIELD: North Young PI: Young Deep Unit #1 (Injection) COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs (Main Pay) ID/LOC: Sec 10, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs (Main Pay) PERFS: DATE COMPLETED:

MONTH	ALLOM.	OIL COMD. - BOLS.			GAS - MCF			WATER - BOLS.			O.O.R.		PRESSURE			INTERESTS
		DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	B.P.M.	POP.	STP.	SW.	Days	REMARKS
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
1085																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
1186																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
1287																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
1388																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
1489																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																

W.B. Young Deep Well # 2 (Injection)

FIELD: _____ COUNTY: _____ STATE: _____

LEASE: _____ ID# LOC: _____ OPERATOR: _____

RESERVOIR: _____ PERM: _____ DATE COMPLETED: _____

DATE	MONTH	DAY	OIL/GAS - BBL.			GAS - MCF			WATER - BBL			O.O.R.			PRESSURE			REMARKS
			MONTHLY	CUMULATIVE	MONTHLY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	B.P.M.	PSI	TEMP.	PSI	TEMP.	PSI	
98																		
			490							29751	3208975							30
			871							25863	3234168							37
			438							29535	3262772							31
			1085							24596	3282309							27
			609							20738	3309187							21
			361							22518	3337557							30
			1059							38824	3370379							31
			1537							33791	340279							31
			430							34894	3420064							30
			737							28509	3451003							31
			1030							30919	3487512							30
										31094	3518466							31
										34037								
			1069							33141	3552607							31
			949							275084	3580115							30
			919							27584	3607699							30
			925							27143	3635442							31
			946							29327	3664711							31
										33045								30
										30157	3727993							31
										21145								31
										22145								30
										20515								31
										21993								30
										26750	3840571							31

FIELD: North Young Mr. Young Deep Unit #2 (Injection) COUNTY: Lea STATE: New Mexico
 RESERVOIR: Bone Springs (Main Pay) I.O.C.: Sec 10, T-18S, R-32E OPERATOR: HEYCO
 PERFS.: _____ DATE COMPLETED: _____

MONTH	ALLOM.	OIL COMD. - SOLS.			GAS - MCF			WATER - SOLS.			G.O.R.	PRESSURE			INTERESTS
		MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	°	B.P.M.	W.P.		OPR.	EMP.	Days	
85															
JAN.						38293	1968907				1308			31	
FEB.						39407	2008514				1339			28	
MAR.						39390	2047904				1230			31	
APR.						38917	2086821	✓			1420			30	
MAY						41893	2128714	✓			1479			31	
JUN.						38060	2166774	✓			1063			30	
JUL.						41111	2207885	✓			1334			31	
AUG.						35713	2243598	✓			1359			31	
SEP.						47517	2291115	✓			1454			29	
OCT.						33605	2324720	✓			1620			31	
NOV.						35570	2360290	✓			871			30	
DEC.						37116	2397406				978			31	
186						4466792									
JAN.						32739	2430145	✓			750			30	
FEB.						32628	2462773	-			1022			28	
MAR.						419416	2504619		*		969				
APR.						41737	2546356				1167				
MAY						30361	2566617				1164			15	
JUN.						27772	2594393				741			30	
JUL.						30849	2625242				878			21	
AUG.						31958	2657200				884			21	
SEP.						38819	2686019				509			30	
OCT.						32341	2718360				397			27	
NOV.						31106	2749466				448			30	
DEC.						24621	2776087				403			31	
187						378681								31	
JAN.						34415	2810502				697				
FEB.						31971	2842473				590			28	
MAR.						31723	2874196				702				
APR.						31237	2905433				806				
MAY						30925	2936358				524				
JUN.						35110	2971468				511				
JUL.						34256	3005724				433				
AUG.						34698	3040422				432				
SEP.						35110	3075432				632				
OCT.						30045	3075471				019			31	
NOV.						168497	3143074				645			20	
DEC.						35780	3179154				695				
						403667									

Young Deep Unit #4

STATE:

ORIGIN:

DATE COMPLETED:

DATE	OIL - GALLONS		GAS - MCF		WATER - GALLONS		O.G.R.		PRESSURE			REMARKS
	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	O.G.R.	P.W.	S.W.P.	W.O.		
87	1982	51.75	4114	19473	417	20067						
88	1983	51.75	5114	20067	1007	2090						
89	1984	51.75	5114	20067	1007	2090						
90	1985	51.75	5114	20067	1007	2090						
91	1986	51.75	5114	20067	1007	2090						
92	1987	51.75	5114	20067	1007	2090						
93	1988	51.75	5114	20067	1007	2090						
94	1989	51.75	5114	20067	1007	2090						
95	1990	51.75	5114	20067	1007	2090						
96	1991	51.75	5114	20067	1007	2090						
97	1992	51.75	5114	20067	1007	2090						
98	1993	51.75	5114	20067	1007	2090						
99	1994	51.75	5114	20067	1007	2090						
00	1995	51.75	5114	20067	1007	2090						
01	1996	51.75	5114	20067	1007	2090						
02	1997	51.75	5114	20067	1007	2090						
03	1998	51.75	5114	20067	1007	2090						
04	1999	51.75	5114	20067	1007	2090						
05	2000	51.75	5114	20067	1007	2090						
06	2001	51.75	5114	20067	1007	2090						
07	2002	51.75	5114	20067	1007	2090						
08	2003	51.75	5114	20067	1007	2090						
09	2004	51.75	5114	20067	1007	2090						
10	2005	51.75	5114	20067	1007	2090						
11	2006	51.75	5114	20067	1007	2090						
12	2007	51.75	5114	20067	1007	2090						
13	2008	51.75	5114	20067	1007	2090						
14	2009	51.75	5114	20067	1007	2090						
15	2010	51.75	5114	20067	1007	2090						
16	2011	51.75	5114	20067	1007	2090						
17	2012	51.75	5114	20067	1007	2090						
18	2013	51.75	5114	20067	1007	2090						
19	2014	51.75	5114	20067	1007	2090						
20	2015	51.75	5114	20067	1007	2090						
21	2016	51.75	5114	20067	1007	2090						
22	2017	51.75	5114	20067	1007	2090						
23	2018	51.75	5114									

FIELD: North Young
LEASE: Bone Springs (2nd Sand)

PI.E Young Deep Unit #4
COUNTY: Lea
I.D./LOC: Sec 9, T-18S, R-32E

STATE: New Mexico
OPERATOR: HEVCO
DATE COMPLETED: 6-10-84

RESERVOIR: Bone Springs (2nd Sand)

PERFS: Open Hole: 8700-9026'

INTERESTS

MONTH	ALLOW.	DAIS	WATER	G.O.R.	PRV.	STP.	END.	REMARKS
84								Days
JAN.								
FEB.								
MAR.								
APR.								
MAY								
JUN.								
JUL.								
AUG.								
SEP.								
OCT.								
NOV.								
DEC.								
85								
JAN.								
FEB.								
MAR.								
APR.								
MAY								
JUN.								
JUL.								
AUG.								
SEP.								
OCT.								
NOV.								
DEC.								
86								
JAN.								
FEB.								
MAR.								
APR.								
MAY								
JUN.								
JUL.								
AUG.								
SEP.								
OCT.								
NOV.								
DEC.								
87								
JAN.								
FEB.								
MAR.								
APR.								
MAY								
JUN.								
JUL.								
AUG.								
SEP.								
OCT.								
NOV.								
DEC.								

Page 2

Well: Young Deep 11+ #5 (Injection)

STATE:

FIELD: COUNTY: I.D./LOC: OPERATOR: DATE COMPLETED:

RESERVOIR: PERMITS:

MONTH	DAY	OIL/GAS - BBL.			WATER - BBL.			O.O.R.			PRESSURE			REMARKS
		MONTHLY	RECORD	REMARKS	MONTHLY	RECORD	REMARKS	B.P.M.	PRE.	INT.	WELL	WELL	WELL	
8/8	1020	18541	5025100		1507	1387	30							
8/9	5910	17121	5191087		1572	1572	27							
8/10	5522	17111	5267948		1572	1572	27							
8/11	4055	2041766	5609774		1572	1572	27							
8/12	1329	41203	6002177		1572	1572	27							
8/13	537	24804	6216941		1572	1572	27							
8/14	1130	350216	6168007		1572	1572	27							
8/15	1103	36002	6293006		1572	1572	27							
8/16	1856	360426	7354285		1572	1572	27							
8/17	1001	31036	7166461		1572	1572	27							
8/18	1048	31288	797749		1572	1572	27							
8/19		20334	828282		1572	1572	27							
8/20		34138			1572	1572	27							
8/21	409	25101	853384		1572	1572	27							
8/22	408	27452	881336		1572	1572	27							
8/23	1091	32715	914051		1572	1572	27							
8/24	1159	34783	948834		1572	1572	27							
8/25	948	29203	914637		1572	1572	27							
8/26		22014			1572	1572	27							
8/27		44045	10495410		1572	1572	27							
8/28		53405			1572	1572	27							
8/29		51015			1572	1572	27							
8/30		95224			1572	1572	27							
8/31		53522			1572	1572	27							
8/32		56775	1322907		1572	1572	27							
8/33					1572	1572	27							
8/34					1572	1572	27							
8/35					1572	1572	27							
8/36					1572	1572	27							
8/37					1572	1572	27							
8/38					1572	1572	27							
8/39					1572	1572	27							
8/40					1572	1572	27							
8/41					1572	1572	27							
8/42					1572	1572	27							
8/43					1572	1572	27							
8/44					1572	1572	27							
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8/50					1572	1572	27							
8/51					1572	1572	27							
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8/75					1572	1572	27							
8/76					1572	1572	27							
8/77					1572	1572	27							
8/78					1572	1572	27							
8/79					1572	1572	27							
8/80					1572	1572	27							
8/81					1572	1572	27							
8/82					1572	1572	27							
8/83					1572	1572	27							
8/84					1572	1572	27							
8/85					1572	1572	27							
8/86					1572	1572	27							
8/87					1572	1572	27							
8/88					1572	1572	27							
8/89					1572	1572	27							
8/90					1572	1572	27							
8/91					1572	1572	27							
8/92					1572	1572	27							
8/93					1572	1572	27							
8/94					1572	1572	27							
8/95					1572	1572	27							
8/96					1572	1572	27							
8/97					1572	1572	27							
8/98					1572	1572	27							
8/99					1572	1572	27							
8/100					1572	1572	27							

STATE: New Mexico

STATE: New Mexico

STATE: New Mexico

DATE COMPLETED:

DATE COMPLETED:

[illegible]

FIELD: North Young PI: 8 Young Deep Unit #6
 COUNTY: Lea
 LEASE: Bone Springs ("B" Zone) I.D./LOC: Sec 3, T-18S, R-32E STATE: New Mexico
 OPERATOR: HEYCO DATE COMPLETED: _____

MONTH	ALLOW.	OIL COMP. - BLS.		GAS - MCF		WATER - BLS.		O.G.R.		PRESSURE			INTERESTS
		MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	FW.	SWP.	SWP.	
85													
APR	5177	64.0	1983	265893	1106	187868	27292	243942	53.5	548			21
MAY	4646	37.5	1013	226906	424	188546	32996	276929	97.0	428			27
JUN	51421	39.3	1060	226966	1345	190601	22866	210765	94.1	1219			31
JUL	5010	27.3	724	228700	1239	190940	2277	333483	96.9	1824			37
AUG	5177	25.0	750	229450	1237	192169	18283	351725	96.1	1639			30
SEP	5010	25.6	77	230167	6535	194701	1927	370453	96.9	3531			28
OCT	5177	26.0	615	230788	1348	19609	1709	387421	96.5	2193			29
NOV	5177	48.4	1403	232185	1268	197317	13576	400947	90.6	904			29
DEC	2046	67.2	269	232454	129	197446	2062	403054	88.5	480			4
JAN	2046	62.8	1948	234402	1492	198938	12613	415672	86.6	766			31
FEB	1980	0	0	234402	0	198938	0	415672	0	0			0
MAR	2046	65.4	1766	236168	1408	200346	13301	428973	88.3	797			27
APR			12258		13630		212413						
MAY	2046	54.4	1631	237799	1213	201554	10868	439841	87.0	744			30
JUN	1949	50.9	1670	239449	1323	202922	14137	454579	90.7	729			28
JUL	2046	42.3	1341	240919	1169	203051	22072	476651	90.2	871			31
AUG	1090	36.3	1019	241837	1139	205050	20256	503407	96.5	1118			28
SEP	2046	37.0	1095	243532	932	206033	13615	516622	92.0	657			29
OCT	1980	0	0	243532	0	206033	0	516622	0	0			0
NOV	2046	35.4	1098	244020	1709	207552	20296	526718	95.0	1556			31
DEC	2046	35.9	1112	244132	1607	208229	20458	527176	94.8	2445			31
JAN	1080	28.6	857	245999	1034	210273	20010	537184	95.9	1807			30
FEB	1116	22.1	994	246983	1236	211609	20677	547863	95.4	1843			27
MAR	1080	33.7	1010	247993	920	212529	21210	549075	95.5	911			30
APR	1116	31.5	977	248970	828	213397	21917	550990	95.7	988			31
MAY			12803		13051		212017						
JUN	1116	28.9	867	249837	1206	214600	21210	560200	96.0	1388			30
JUL	1058	26.7	1030	250867	200	215000	18240	562340	94.6	388			28
AUG	1116	26	115	251982	512	215512	20205	700845	94.7	459			31
SEP	1080	35	1038	253020	477	215099	9599	710444	90.2	460			30
OCT	1116	26	1159	254129	555	216244	2588	722533	91.9	550			31
NOV	1090	32.3	942	254971	750	217302	17936	740868	92.4	270			26
DEC	1116	30.7	952	255923	602	217965	21246	762134	95.7	696			26
JAN	1116	35	750	256673	5163	218538	30520	782114	90.5	751			30
FEB	1050	30.1	905	257578	1042	219170	20580	803294	95.7	709			30
MAR	1085	32	923	258571	1042	220212	20231	824523	95.4	711			31
APR	1050	30.3	733	259305	570	220702	19228	843333	97.2	711			28
MAY	1055	27.0	235	260147	609	221790	21605	864539	96.3	324			27
JUN			11971		4988		223449						

FIELD: North Young COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone) I.D./LOC.: Sec 3, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone) DATE COMPLETED: _____

RESERVOIR: DATE: 01/01/2011										INTERESTS									
MONTH ALLOW.			OIL/GAS - B.S.L.			OAS - MCP			WATER - B.S.L.			G.O.R.			PRESSURE			Days	REMARKS
	DAILY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	PTP.	STP.	SEP.							
85	0	58.6	1011	304573	567	151018	16637	159953	94.3	561							31		
86	0	43.8	1097	305669	470	151488	21257	181210	95.1	428							25		
87	0	37.0	1148	306817	807	153325	21791	203001	95.0	703							31		
88	0	24.8	743	307560	1239	153224	22757	225758	96.8	1808							30		
89	0	21.1	591	308151	1951	155525	7930	225758	98.1	3301							28		
90	0	45.3	1086	30927	3520	158145	8023	224771	88.2	2357							24		
91	0	30.3	547	309724	1139	159284	7381	224771	93.1	2082							27		
92	0	71.2	1424	211208	1319	160603	9756	258908	87.3	426							20		
93	0	61.2	1592	212800	700	161303	6842	265750	81.1	440							26		
94	0	48.5	1505	214305	663	161966	5405	271155	78.2	441							31		
95	0	52.2	1567	215812	1039	163005	10737	281892	87.3	663							30		
96	0	35.4	673	216545	528	163533	3224	285116	82.7	785							19		
97		12984			13082		141800												
98	0	32.1	932	217477	606	164139	4281	289397	82.1	650							29		
99	0	24.2	960	218437	412	164951	5806	295203	85.2	637							28		
00	0	25.8	1112	219529	940	165109	4916	295699	80.8	845							31		
01	0	21.5	882	220531	512	166213	700	296413	46.4	645							28		
02	0	0	0	220531	0	166213	0	296413	0	0							0		
03	0	38.1	1145	221573	912	167123	8092	301555	87.2	799							30		
04	0	20.7	951	222524	1709	168822	9212	313222	90.7	797							31		
05	0	32.2	984	223488	1446	170328	8695	322522	90.0	1500							29		
06	0	25.1	628	224116	919	171247	7425	329988	82.2	1463							25		
07	0	29.7	862	224978	1236	172483	8613	332601	90.9	1424							29		
08	0	21.4	943	225791	789	173272	9930	348531	91.3	937							30		
09	0	29.2	912	226833	744	174016	10261	358792	91.8	816							31		
10	0	10288	10483			73676													
11	0	27.0	810	227643	1034	175053	9930	368722	92.4	1277							30		
12	0	24.5	657	228330	1000	175653	8100	377322	92.6	873							28		
13	0	24	1052	229389	1024	176677	12220	390152	92.6	917							31		
14	0	25	1038	230427	954	177631	9598	400250	92.2	919							30		
15	0	24	1044	231471	1000	178671	8244	408494	88.7	996							31		
16	0	25	942	232312	447	179518	12045	421399	93.8	1006							29		
17	0	30.7	952	232815	603	180181	13795	435194	94.1	996							31		
18	0	23.4	703	233918	402	180704	13250	448544	94.9	901							30		
19	0	24.6	552	234820	1043	181286	13250	461894	94.0	757							31		
20	0	24.6	423	235312	643	182429	120831	472059	95.4	1025							31		
21	0	24.2	623	236041	576	182994	12460	484259	94.7	623							28		
22	0	24.9	773	237049	690	183145	13645	502830	94.6	904							31		
23	0	24.9	1049	237219	9679		150034												

Mr. Young Deep Ut #8

LEASE: _____ FIELD: _____ COUNTY: _____ STATE: _____

10/10/01

RESERVOIR: _____ OPERATOR: _____ DATE COMPLETED: _____

MARKS:

DATE	TIME	OIL - GALS.		GAS - SCF		WATER - GALS		O.G.M. G.P.M.	PRESSURE			REMARKS
		START	END	START	END	START	END		PRE.	INT.	WEL.	
10/10	10:4	304	63623	140	631034	189	26059	343	460			DANS
10/10	8:1	235	63988	98	63132	202	27161	413	417			29
10/10	7:3	235	64174	106	63222	255	27416		429			29
10/10	7:5	226	64276	104	63226	240	27442	473				30
10/10	3:2	244	64454	72	64009	448	28210	035				24
10/10	3:4	244	64738	152	64101	106	28416	535				30
10/10	1:1	287	65025	207	64218	88	28504	781				27
10/10	3:2	287	65312	127	64314	0	28504	789				30
10/10	1:1	212	65574	127	64441	0	28504	494				27
10/10	1:9	208	65816	142	64782	0	28504	486				27
10/10	10:6	298	66014	121	64904	0	28504	400				28
10/10	9:8	225	66119	102	65022	0	28504	434				21
10/10		200		1512		1734						
10/10	10:7	311	66480	207	65213	0	28504	645				29
10/10	11:3	295	67075	102	65315	0	28504	340				24
10/10	10:7	290	67365	93	65408	0	28504	321				27
10/10	10:5	296	67661	124	65532	0	28504	419				28
10/10	12:1	342	68043	171	65763	0	28504	448				30
10/10		270		222		0						29
10/10		295	68414	162	66085	0						31
10/10		276		259		0						31
10/10		288		328		0						30
10/10		291		329		0						31
10/10		304		702		0						30
10/10		284	70057	224	67331	0						24

FIELD: North Young PI: E Young Deep Unit #8
LEASE: Bone Springs ("B" Zone) COUNTY: Lea
ID: LOC: Sec 8, T-18S, R-32E
STATE: New Mexico
OPERATOR: HEYCO
DATE COMPLETED: _____

INTERESTS											
WATER - BBL.											REMARKS
OIL/COND. - BBL.		GAS - MCF		WATER - BBL.		G.O.R.			PRESSURE		
MONTH ALLOW.	DAILY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	PP.	STP.	SWP.	Days
85											
ADD.	21.5	4668	41684	329	39243	8988	10563	81.4			31
PROD.	18.3	495	41717	811	39574	3534	14097	87.8			27
PROD.	11.4	555	43070	619	40193	585	14682	88.4			31
PROD.	4.7	140	43310	495	40688	480	15162	17.4			20
PROD.	8.5	366	43476	1468	41350	479	15241	14.6			31
PROD.	8.3	350	43786	1169	43519	488	16129	16.1			30
PROD.	9.0	348	43970	974	44393	446	16575	14.3			31
PROD.	26.7	824	43744	761	45154	330	16905	28.5			31
PROD.	25.3	758	44557	539	45693	34	16939	4.3			30
PROD.	713	620	45177	664	46357	360	17299	36.7			31
PROD.	480	21.4	45818	832	47189	439	1738	40.6			30
PROD.	713	19.0	46407	704	47843	403	18141	40.6			31
86		5851		8899		10500					
ADD.	713	18.1	46951	606	48449	329	18470	37.7			30
PROD.	16.4	300	47511	612	49111	447	18917	44.3			28
PROD.	713	36.7	48656	1278	50489	442	19259	45.3			31
PROD.	16.0	31.6	49403	1388	51817	1529	21328	61.6			30
PROD.	713	32.3	50623	777	53504	434	21832	29.6			31
PROD.	690	36.8	51718	913	53507	300	22632	29.6			30
PROD.	713	41.8	53108	1139	54246	517	23639	27.1			31
PROD.	713	45.5	54517	965	55612	511	23150	26.6			31
PROD.	1230	38.1	55460	290	56301	480	23230	29.6			30
PROD.	1271	40.6	56919	824	57125	496	24166	28.3			31
PROD.	1250	29.8	57525	526	57651	180	24806	28.9			30
PROD.	1271	18.9	58111	496	58147	186	24492	24.1			31
87		11704		10254		6351					
ADD.	1271	17.3	58631	689	58836	180	24672	25.7			30
PROD.	1448	18.3	59446	688	59436	0	24672	0			28
PROD.	1271	16	59648	7168	60304	0	24672	0			31
PROD.	1271	15	60075	7116	60920	0	24672	0			28
PROD.	1271	15	60463	681	61821	0	24672	0			31
PROD.	1230	16.3	61136	401	62222	174	24846	26.8			29
PROD.	1271	17.2	61671	324	62546	186	25035	25.7			31
PROD.	1271	15.1	62140	331	62557	186	25317	26.3			31
PROD.	540	14.9	62614	321	63118	180	25348	27.3			30
PROD.	558	15.0	62765	319	63347	543	25411	25.7			11
PROD.	540	14.1	63131	0	63347	340	26020	40.9			12
PROD.	558	14.3	63249	0	63494	549	26120	40.9			31
88		5296		5349		2998					

FIELD: North Young
PI: E Young Deep Unit #9

COUNTRY: Lea
Sec 3, T-18S, R-32E

STATE: New Mexico
OPERATOR: HEYCO

LEASE: Bone Springs (2nd Sd & MP)
ID/LOC: 8090-344 (MP), 8422-789 (2nd)
DATE COMPLETED: 1-12-84

MONTH	ALLOW.	OIL/COND. - BOLS.			GAS - MCF			WATER - BOLS.			O.O.R.			PRESSURE			INTERESTS
		SALE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	FT.	STP.	SWP.	Days	REMARKS
84																	
JAN.		409	736	736	3600	3600						4891				18	Lower 2nd Sand Only
FEB.		253	658	1344	488	4588						1502				26	
MAR.		276	827	2221	1140	5728						1378				30	
APR.		423	1269	3490	1140	6868						898				30	
MAY		395	1223	4713	1705	8573						1394				31	
JUN.		356	1067	5780	823	9396						771				30	
JUL.		321	995	6775	1440	10836						1447				31	
AUG.		307	952	7727	1170	12006						1229				31	
SEP.		210	869	8596	1629	13635						1875				30	
OCT.		267	827	9423	939	14574						1135				31	
NOV.		262	786	10209	363	14937						462				30	
DEC.		337	1044	11253	53	14990						51				31	
85			11853														
JAN.		332	1030	12283	542	15532						526				31	
FEB.		344	930	13213	1055	16587						1134				27	
MAR.		185	572	13785	524	17111						916				31	
APR.		176	528	14313	485	17596						919				30	
MAY		1289	2964	17277	2415	20011						815				23	(New 2nd Sd zone & MP open
JUN.		1159	3246	20523	5534	25545						189				28	
JUL.		819	2130	22653	4428	29973						216				26	
AUG.		720	2231	24884	4174	34147						320				31	
SEP.		4230	604	1752	2636	4804						373				29	
OCT.		4371	659	1976	28612	4303						389				30	
NOV.		4230	657	1708	30320	3728						399				26	
DEC.		4371	757	2119	32439	4081						449				28	
86			21186														
JAN.		4371	660	1517	33956	3320						471				23	
FEB.		3049	541	1515	35471	3445						496				28	
MAR.		4371	658	1658	37169	42006						618				31	
APR.		4230	418	1443	38572	4184						685				30	
MAY		4371	384	1191	39763	3608						753				31	
JUN.		4120	493	1478	41291	3675						771				30	
JUL.		4121	460	1460	41867	3861						838				31	
AUG.		4371	242	1060	41973	3704						875				37	
SEP.		1590	315	946	44673	3041						905				30	
OCT.		1643	327	1013	45686	3366						936				31	
NOV.		1590	403	1209	46895	3863						975				30	
DEC.		1643	467	1450	48455	3903						975				31	
			15906			36902						526					

PI: 8 Young Deep Unit #10

FIELD:

COUNTY:

STATE:

LEASE:

LOC:

OPERATOR:

RESERVOIR:

PERM:

DATE COMPLETED:

MONTH	ALLO.	OIL - BBL.			GAS - MCF			WATER - BBL.			O.O.B.	PRESSURE			REMARKS
		MONTHLY	CUMULATIVE	WELL	MONTHLY	CUMULATIVE	WELL	MONTHLY	CUMULATIVE	WELL		PT.	STP.	END.	
775	24	744	36357	1875	45830	0	353	0	2580						31
780	247	693	37050	1159	46939	0	253	0	4402						28
785	23	716	37766	2629	49668	0	252	0	3156						21
790	20	813	38579	1129	50817	0	252	0	1278						30
795	18	817	39396	1365	52082	0	353	0	2281						31
800	25.8	774	40070	1360	53442	0	353	0	1757						30
805	18.5	576	40646	1263	54705	0	353	0	2198						31
810	25.3	787	41433	1238	56137	0	353	0	1819						30
815	23.7	715	42148	1232	57420	0	353	0	1860						31
820	24.5	761	42909	1372	58746	0	353	0	1872						30
825	24	643	43552	955	59771	0	353	0	1823						31
830	24.2	709	44261	1016	60767	0	353	0	1823						31
835		4549		16812		0	353	0	1841						29
840	21.2	676	44937	1116	61833	0	353	0	1620						29
845	244	709	45646	1149	62932	0	353	0	1552						30
850	23.1	716	46362	1151	64117	0	353	0	1050						30
855	21.5	644	47006	1083	65182	0	353	0	1024						30
860	14.7	532	47538	545	65715	0	353	0	1439						29
865	23.5	676	48214	972	66687	0	353	0	1751						29
870	23.5	540	48754	1016	67703	0	353	0	1679						29
875	20	580	49334	974	68677	0	353	0	1747						28
880	18.0	523	49857	914	69600	0	353	0	1457						29
885	23.1	670	50527	976	70576	0	437	0	1078						28
890	23.7	664	51191	712	70938	84	437	84	1120						28
895	22.7	643	51834	780	71658	87	437	87							28
900		7545		10891		171	411		1350						29
905	20.3	591	52425	798	72456	87	411	87	1312						27
910	22.6	612	53037	803	73259	84	411	84	1589						28
915	19.2	546	53583	858	74117	87	411	87	1654						29
920	19.3	540	54123	890	74707	87	411	87	1445						29
925	20.1	543	54666	844	75511	87	411	87							29
930		505		1371		0	450	0							30
935		479	55173	1350	10272	0	450	0							31
940		737		1118		0		0							31
945		1325		2901		0		0							31
950		435		1020		0		0							30
955		483		293		0		0							30
960		483	54993	500	16064	0		0							30

FILE Young Deep Unit #10

COUNTRY: Lea

FIELD: North Young

STATE: New Mexico

SEC 3, T-18S, R-32E

DATE COMPLETED: 2-3-84

LEASE: Bone Springs (2nd Sand)

PERF: 8737-8801'

OPERATOR: HEYCO

MONTH	ALLOM.	OIL COMD. - SOLS.			GAS - MCF			WATER - SOLS.			O.O.B.			PRESSURE			INTERESTS
		DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	D.O.M.	PT.	STP.	STP.	STP.	STP.	
JAN.		50.6	1316	1316	1300		1300				988						26
FEB.		38.8	1164	2480	1500		2800				1284						30
MAR.		58.3	1749	4229	1500		4300				858						30
APR.		54.4	1686	5915	2511		6811				1489						31
MAY		48.9	1469	7384	1212		8023				825						30
JUN.		44.2	1371	8755	2120		10143				1546						31
JUL.		41.0	1270	10025	1804		11947				1420						31
AUG.		38.6	1158	11183	170		12117				147						30
SEP.		38.2	1185	12368	1409		13526				1189						31
OCT.		39.3	1180	13548	806		14332				514						30
NOV.		30.9	957	14505	57		14389				60						31
DEC.																	
JAN.		30.5	945	15450	589		14777				622						31
FEB.		31.6	953	16303	1145		15922				1342						37
MAR.		41.2	1276	17579	1964		17886				1539						31
APR.		39.4	1179	18758	1819		19705				1545						30
MAY		19.3	508	19356	692		20397				1157						31
JUN.		22.3	668	20024	1573		21970				2355						30
JUL.		36.2	1015	21057	711		22681				1689						38
AUG.		34.2	1061	22098	1615		24294				1520						31
SEP.		40.6	1177	23275	1796		26090				130						29
OCT.		31.3	940	24215	1662		28752				146						30
NOV.		31.2	812	25027	1441		30193				156						26
DEC.		34.5	963	25890	931		31124				244						25
JAN.		20.7	641	26781	1106		32230				302						30
FEB.		34.5	1080	27861	841		33071				353						38
MAR.		30.2	937	28799	742		33813				353						31
APR.		47.0	1212	29211	738		34571				352						30
MAY		14	51	29772	1848		35239				353						3
JUN.		28	896	30668	1151		36390				353						30
JUL.		33.5	1032	31700	540		36930				353						37
AUG.		34.7	108	32047	676		37606				353						31
SEP.		32.8	985	32932	940		38546				353						30
OCT.		39.7	1221	34153	1047		39593				353						37
NOV.		39.8	1221	35481	1112		40705				353						30
DEC.		33.9	1050	36531	985		41690				353						31
JAN.		33.9	1050	37581	10231		42711				353						31

W.E. Young Deep Unit #11

FIELD:

COUNTY:

STATE:

LEASE:

ID/LOC:

OPERATOR:

RESERVOIR:

PERF:

DATE COMPLETED:

DATE	WORTH ALLOW.	GAS	WATER - GALS	GAS - MCF	WATER - GALS	GAS - MCF	PRESSURE	INTEREST	REMARKS
11/1	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/2	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/3	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/4	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/5	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/6	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/7	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/8	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/9	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/10	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/11	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/12	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/13	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/14	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/15	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/16	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/17	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/18	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/19	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/20	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/21	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/22	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/23	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/24	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/25	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/26	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/27	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/28	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/29	5673	127.5	3953	176149	3912	107746	47	2059	1.1
11/30	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/1	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/2	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/3	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/4	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/5	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/6	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/7	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/8	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/9	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/10	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/11	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/12	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/13	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/14	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/15	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/16	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/17	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/18	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/19	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/20	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/21	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/22	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/23	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/24	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/25	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/26	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/27	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/28	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/29	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/30	5673	127.5	3953	176149	3912	107746	47	2059	1.1
12/31	5673	127.5	3953	176149	3912	107746	47	2059	1.1

FIELD: North Young WIRE: Young Deep Unit #11 COUNTRY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone) ID LOC: Sec 9, T-18S, R-32W OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone) PERFS.: DATE COMPLETED:

MONTHLY ALLOW.		OIL/COND. - BOLS.		GAS - SCF		WATER - BOLS.		D.O.M.		PRESSURE		REMARKS	
	DAILY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	°	B.P.M.	PT.	STP.	SWP.	Days
84													
JAN.													
FEB.													
MAR.													
APR.													
MAY													
JUN.													
JUL.													
AUG.													
SEP.	206	6168	6168	4330	4330	222	222	3.5	702				30
OCT.	255	7910	14078	6155	10485	161	383	2.0	778				31
NOV.	220	6596	20674	5020	15505	405	786	5.8	761				30
DEC.	135	3780	24454	560	16065	0	786	0	148				28
85		24454		16065		786							
JAN.	202	6270	30724	2723	18788	0	786	0	434				
FEB.	209	7464	38188	3190	21978	0	786	0	427				
MAR.	309	9573	47761	3294	25272	45	831	.5	344				
APR.	274	8212	55973	3480	28752	0	831	0	424				
MAY	232	6510	62483	4505	33257	28	859	.4	492				
JUN.	227	6818	69301	4592	37849	0	859	0	674				
JUL.	209	6484	75185	3418	41267	31	890	.5	527				
AUG.	217.1	6730	82515	3483	44750	19	909	.3	518				
SEP.	6270	225.5	6764	3006	47556	362	1271	5.1	444				31
OCT.	6479	223.2	6918	3316	51072	0	1371	0	479				31
NOV.	6270	213.9	6417	4573	55645	0	1671	0	713				30
DEC.	6479	242.1	7263	3875	59518	0	1271	0	533				30
86		85423		43453		485							
JAN.	6479	222	6655	3183	62701	0	1271		478				30
FEB.	525	830	10815	3058	65759	0	1271		492				27
MAR.	6079	168.9	5838	4883	70582	158	1489	2.0	380				31
APR.	5570	165	4967	4554	75136	174	1608	2.3	216				30
MAY	6479	116.3	5245	3264	78400	131	1724	2.4	655				31
JUN.	6270	174	5207	3856	82836	184	1858	2.3	737				30
JUL.	6479	177	5226	4937	87173	0	1858	0	900				31
AUG.	6479	169	5254	4112	91251	0	1858	0	795				31
SEP.	5490	165	4940	2989	94339	0	1858	0	605				30
OCT.	5673	163	5040	2567	91908	0	1858	0	708				31
NOV.	5490	187	4109	3034	100928	84	1948	6.0	736				30
DEC.	5673	128	3961	2953	103784	70	2018	.7	780				31
		602319		444066		741							

country:

1.0.1.00:

ORIGINATOR:

INDEX

DATE COMPLETED:

OIL CONSUMPTION - MILLS										WATER - BOLS										O.O.A.			PRESSURE			INTERESTS
MONTH		OIL CONSUMPTION		WATER		O.O.A.		PRESSURE			INTERESTS															
DATE	AMOUNT	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	DATE	DATE	DATE	DATE	DATE														
1907	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1908	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1909	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1910	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1911	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1912	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1913	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1914	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1915	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1916	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1917	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1918	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1919	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1920	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1921	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1922	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1923	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1924	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1925	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1926	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1927	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1928	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1929	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1930	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1931	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1932	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1933	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1934	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1935	3650	746	2314	61814	2756	38406	410	4244	17	1191	31	28														
1936	3650																									

North Young

COUNTRY:

Lea

STATE: New Mexico

FIELD: NOT CALL LOADING
LEASE: _____

1.D.A.O.C.: Sec 9, T-185, R-32E

OPERATOR: HEYCO

RESERVOIR: Bone Springs ("B" Zone)

MENTS:

DATE COMPLETED:

[illegible]

Young Deep Unit #14

STATE:

ORIGINATOR:

DATE COMPLETED:

[illegible]

FIELD: North Young WELL: Young Deep Unit #14 COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs (2nd Sand & MP) 10/A/LOC: Sec 9, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs (2nd Sand & MP) PERFS: DATE COMPLETED:

MONTHLY ALLOW.		OIL/GAS - BOBLS.		GAS - MCF		WATER - BOBLS.		O.O.R.		PRESSURE			INTERESTS	
		MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	PTG.	STG.	SEP.	Days	REMARKS
JAN.														
FEB.														
MAR.														
APR.														
MAY														
JUN.														
JUL.														
AUG.														
SEP.														
OCT.														
NOV.														
DEC.														
1985			1232		69		69	70						
JAN.		61.5	1906	3138	350	919	105	175	5.2	446			31	
FEB.		47.1	1271	4409	544	1463	0	175	0	428			27	
MAR.		39.2	1215	5624	1145	2606	0	175	0	941			31	
APR.		39.9	1198	6822	801	3407	0	175	0	669			30	
MAY		56.6	1755	8577	1325	4732	341	516	16.3	755			31	
JUN.		74.4	1860	10457	364	6096	55	574	3.0	733			25	
JUL.		57.1	1769	12206	851	7047	31	605	1.7	538			31	
AUG.		40.2	1346	13452	979	7926	102	707	7.6	705			31	
SEP.		1710	60.3	1387	14839	1101	9027	339	1046	19.6	794		23	
OCT.		1767	96.5	2992	17831	2155	11182	0	1046	0	720		31	
NOV.		1710	90.5	2533	20364	2703	13885	0	1046	0	1067		28	
DEC.		1767	89.2	2025	22459	2113	15998	0	1046	0	1018		30	
1986			21207		15929		976							
JAN.		1767	64	24296	1667	17665	0	1046	0	898			29	
FEB.		1596	64.9	1810	26115	10367	0	1046	0	920			28	
MAR.		1767	59.4	1844	27959	1608	20955	0	1046	0	876		31	
APR.		1710	56.7	1703	29668	1512	22472	0	1046	0	801		30	
MAY		1767	52	1704	31457	1525	23216	0	1046	0	502		27	
JUN.		1710	61	1918	23575	1468	24578	0	1046	0	768		30	
JUL.		1767	41.9	1431	34806	5879	27457	0	1046	0	1593		31	
AUG.		1767	44	1471	36177	1929	29385	0	1046	0	1406		31	
SEP.		1930	43	1539	37466	1379	30764	0	1046	0	1070		30	
OCT.		1984	42	1315	38781	1617	32411	0	1046	0	1253		31	
NOV.		1930	33	1006	39783	980	33231	0	1046	0	918		30	
DEC.		1984	21	966	40729	862	34190	0	1046	0	999		31	
			18310		18201		0							

Page 2

M.B. Young Loop Ut #15

FIELD: _____ COUNTY: _____ STATE: _____

LEASE: _____ 10.10.00: _____ OPERATOR: _____

REFERENCE: _____ PERMITS: _____ DATE COMPLETED: _____

DATE	TIME	OIL/GAS - BBL'S		GAS - MCF		WATER - BBL'S		O.O.B.		PRESSURE		REMARKS
		START	END	START	END	START	END	START	END	INT.	EXT.	
4/8	11:00	516	250.7	815	4050.4	0	3814	0	1579			31
4/8	15:3	445	350.7	1100	3151.4	0	3016.4	0	1573			39
4/8	16:2	504	370.7	1100	3532.1	0	3614	0	1511			37
4/8	17:2	518	374.0	1100	3800.2	0	3753	0	1524			37
4/8	18:0	404	314.0	500	3225.4	0		0	1343			37
4/8	19:0	416	323.0	500	3000.0	0		0	1207			30
4/8	20:0	410	323.3	500	3071.0	0		0	1160			29
4/8	21:0	307	281.3	500	2587.9	0	2809	0	1106			28
4/8	22:0	301	281.3	500	2601.3	0	2809	0	1106			28
4/8	23:0	783	300.7	1100	3000.2	0	3812	0	1100			28
4/8	24:0	710	300.7	1100	2882.1	0	3812	0	1100			29
4/8	25:0	28	400.3	500	4000.3	0	2812	0	2240			29
4/8	26:0	408	411.3	1354	4154.7	0	3848	0	2223			29
4/8	27:0	430	415.6	1354	4490.1	0		0	3149			25
4/8	28:0	500	420.6	1354	4429.3	0		0	2184			28
4/8	29:0	439	425.0	1354	4523.2	0	3808	0	2131			28
4/8	30:0	496	430.4	1354	4440.0	0	3808	0	2131			29
4/8	31:0	581	441.0	1354	4901.0	0	3808	0				31
4/8	32:0	614		1354	900	0		0				30
4/8	33:0	458		1413		0		0				31
4/8	34:0	454		1243		0		0				30
4/8	35:0	489	440.9	1132	5531.0	0		0				31

FIELD: North Young
 M: E Young Deep Unit #16

COUNTY: Lea

STATE: New Mexico

LEASE:

LOC: Sec 9, T-18S, R-32E

OPERATOR: HEYCO

RESERVOIR: Bone Springs ("R" Zone)

PERFS:

DATE COMPLETED:

DATE	MONTH	DAY	OIL - GALS		GAS - MCF		WATER - GALS		O.O.R.	PRESSURE			INTERESTS
			MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE		PT.	STR.	EMP.	
85	NOV	17	1630	1630	713	713	91	53	437				16
	DEC	17	1373	3003	1485	1485	219	85	562				21
	JAN	17	1556	4559	2834	484	703	237	867				22
	FEB	17	1631	6190	1341	4225	87	790	5.1	853			24
	MAR	17	1551	7741	950	5175	217	1007	12.3	613			31
	APR	17	815	8556	1183	6358	28	1035	3.3	1452			31
	MAY	17	625	9181	1172	7530	31	1346	332	1875			29
	JUN	17	935	10116	1824	9354	335	1681	264	1951			30
	JUL	17	845	10961	2445	11849	81	1762	8.7	2953			29
	AUG	17	894	11855	2113	13962	51	1813	5.4	2364			30
	SEP	17	11855		13962		1813						
	OCT	17	929	12784	1667	15629	48	1861	4.9	1794			30
	NOV	17	758	13542	1686	17311	33	1894	4.1	2812			28
	DEC	17	114	14693	1801	19112	0	1902	0	1902			3
	JAN	17	877	15570	1888	21000	0	1902	0	21000			3
	FEB	17	1145	16715	1887	22897	0	1904	0	22897			30
	MAR	17	959	17674	1887	24784	0	1894	0	24784			30
	APR	17	834	18508	1887	26671	0	1894	0	26671			30
	MAY	17	800	19308	1887	28558	0	1894	0	28558			30
	JUN	17	753	20061	1887	30445	0	1894	0	30445			30
	JUL	17	707	20768	1887	32332	0	1894	0	32332			30
	AUG	17	21177	22885	1887	34219	0	1894	0	34219			30
	SEP	17	702	23587	1887	36106	0	1894	0	36106			30
	OCT	17	21879	25766	1887	38000	0	1894	0	38000			30
	NOV	17	496	26262	1887	39887	0	1894	0	39887			30
	DEC	17	10700	27332	1887	41774	81	1894	0	41774			30
	JAN	17	675	28007	1887	43661	0	1894	0	43661			30
	FEB	17	717	28724	1887	45548	0	1894	0	45548			30
	MAR	17	485	29209	1887	47435	0	1894	0	47435			30
	APR	17	187	29396	1887	49322	0	1894	0	49322			30
	MAY	17	316	29712	1887	51209	0	1894	0	51209			30
	JUN	17	403	30115	1887	53096	0	1894	0	53096			30
	JUL	17	605	30720	1887	54983	0	1894	0	54983			30
	AUG	17	27798	33500	1887	56870	0	1894	0	56870			30
	SEP	17	592	34092	1887	58757	0	1894	0	58757			30
	OCT	17	397	34489	1887	60644	0	1894	0	60644			30
	NOV	17	512	35001	1887	62531	0	1894	0	62531			30
	DEC	17	39935	35400	1887	64418	0	1894	0	64418			30
	JAN	17	17910	37190	1887	66305	0	1894	0	66305			30

STAT:

ORIGINATOR:

DATE COMPLETED:

15

FIELD: North Young WELL: Young Deep Unit #17 COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone) I.D.A.C. Sec 9. T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone) PERFS.: DATE COMPLETED:

MONTH	ALLOM.	OIL/CORR. - SOLS.			GAS - SCF			WATER - SOLS.			O.G.R.	PRESSURE			Days	REMARKS
		BARREL	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	MONTHLY	CUMULATIVE	MONTHLY		PT.	STB.	W.P.		
85																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																

W: Young Loop Lt #22

STATE:

PRID: COUNTY: DATE COMPLETED: OPERATOR: ID/LOC: LEASE:

RESERVOIR:

PERM:

DATE COMPLETED:

DATE	WORTH ALLOW.	DAY	OIL/GAS - BBL.		OAS - MCF	WATER - BBL.		O.O.B.	PRESSURE			REMARKS
			MONTHLY	CUMULATIVE		MONTHLY	CUMULATIVE		PTV.	STV.	SHV.	
9/10	210	210	210	52321	1121	60623		1411				31
9/11	210	210	210	54034	1335	63422		1412				29
9/12	210	210	210	55002	1520	64000		1413				27
9/13	210	210	210	55505	1700	64500		1414				25
9/14	210	210	210	56001	1880	65000		1415				23
9/15	210	210	210	56500	2060	65500		1416				21
9/16	210	210	210	57000	2240	66000		1417				19
9/17	210	210	210	57500	2420	66500		1418				17
9/18	210	210	210	58000	2600	67000		1419				15
9/19	210	210	210	58500	2780	67500		1420				13
9/20	210	210	210	59000	2960	68000		1421				11
9/21	210	210	210	59500	3140	68500		1422				9
9/22	210	210	210	60000	3320	69000		1423				7
9/23	210	210	210	60500	3500	69500		1424				5
9/24	210	210	210	61000	3680	70000		1425				3
9/25	210	210	210	61500	3860	70500		1426				1
9/26	210	210	210	62000	4040	71000		1427				
9/27	210	210	210	62500	4220	71500		1428				
9/28	210	210	210	63000	4400	72000		1429				
9/29	210	210	210	63500	4580	72500		1430				
9/30	210	210	210	64000	4760	73000		1431				
10/1	210	210	210	64500	4940	73500		1432				
10/2	210	210	210	65000	5120	74000		1433				
10/3	210	210	210	65500	5300	74500		1434				
10/4	210	210	210	66000	5480	75000		1435				
10/5	210	210	210	66500	5660	75500		1436				
10/6	210	210	210	67000	5840	76000		1437				
10/7	210	210	210	67500	6020	76500		1438				
10/8	210	210	210	68000	6200	77000		1439				
10/9	210	210	210	68500	6380	77500		1440				
10/10	210	210	210	69000	6560	78000		1441				
10/11	210	210	210	69500	6740	78500		1442				
10/12	210	210	210	70000	6920	79000		1443				
10/13	210	210	210	70500	7100	79500		1444				
10/14	210	210	210	71000	7280	80000		1445				
10/15	210	210	210	71500	7460	80500		1446				
10/16	210	210	210	72000	7640	81000		1447				
10/17	210	210	210	72500	7820	81500		1448				
10/18	210	210	210	73000	8000	82000		1449				
10/19	210	210	210	73500	8180	82500		1450				
10/20	210	210	210	74000	8360	83000		1451				
10/21	210	210	210	74500	8540	83500		1452				
10/22	210	210	210	75000	8720	84000		1453				
10/23	210	210	210	75500	8900	84500		1454				
10/24	210	210	210	76000	9080	85000		1455				
10/25	210	210	210	76500	9260	85500		1456				
10/26	210	210	210	77000	9440	86000		1457				
10/27	210	210	210	77500	9620	86500		1458				
10/28	210	210	210	78000	9800	87000		1459				
10/29	210	210	210	78500	9980	87500		1460				
10/30	210	210	210	79000	10160	88000		1461				
10/31	210	210	210	79500	10340	88500		1462				
11/1	210	210	210	80000	10520	89000		1463				
11/2	210	210	210	80500	10700	89500		1464				
11/3	210	210	210	81000	10880	90000		1465				
11/4	210	210	210	81500	11060	90500		1466				
11/5	210	210	210	82000	11240	91000		1467				
11/6	210	210	210	82500	11420	91500		1468				
11/7	210	210	210	83000	11600	92000		1469				
11/8	210	210	210	83500	11780	92500		1470				
11/9	210	210	210	84000	11960	93000		1471				
11/10	210	210	210	84500	12140	93500		1472				
11/11	210	210	210	85000	12320	94000		1473				
11/12	210	210	210	85500	12500	94500		1474				
11/13	210	210	210	86000	12680	95000		1475				
11/14	210	210	210	86500	12860	95500		1476				
11/15	210	210	210	87000	13040	96000		1477				
11/16	210	210	210	87500	13220	96500		1478				
11/17	210	210	210	88000	13400	97000		1479				
11/18	210	210	210	88500	13580	97500		1480				
11/19	210	210	210	89000	13760	98000		1481				
11/20	210	210	210	89500	13940	98500		1482				
11/21	210	210	210	90000	14120	99000		1483				
11/22	210	210	210	90500	14300	99500		1484				
11/23	210	210	210	91000	14480	100000		1485				
11/24	210	210	210	91500	14660	100500		1486				
11/25	210	210	210	92000	14840	101000		1487				
11/26	210	210	210	92500	15020	101500		1488				
11/27	210	210	210	93000	15200	102000		1489				
11/28	210	210	210	93500	15380	102500		1490				
11/29	210	210	210	94000	15560	103000		1491				
11/30	210	210	210	94500	15740	103500		1492				
12/1	210	210	210	95000	15920	104000		1493				
12/2	210	210	210	95500	16100	104500		1494				
12/3	210	210	210	96000	16280	105000		1495				
12/4	210	210	210	96500	16460	105500		1496				
12/5	210	210	210	97000	16640	106000		1497				
12/6	210	210	210	97500	16820	106500		1498				
12/7	210	210	210	98000	17000	107000		1499				
12/8	210	210	210	98500	17180	107500		1500				
12/9	210	210	210	99000	17360	108000		1501				
12/10	210	210	210	99500	17540	108500		1502				
12/11	210	210	210	100000	17720	109000		1503				
12/12	210	210	210	100500	17900	109500		1504				
12/13	210	210	210	101000	18080	110000		1505				
12/14	210	210	210	101500	18260	110500		1506				
12/15	210	210	210	102000	18440	111000		1507				
12/16	210	210	210	102500	18620	111500		1508				
12/17	210	210	210	103000	18800	112000		1509				
12/18	210	210	210	103500	18980	112500		1510				
12/19	210	210	210	104000	19160	113000		1511				
12/20	210	210	210	104500	19340	113500		1512				
12/21	210	210	210	105000	19520	114000		1513				
12/22	210	210	210	105500	19700	114500		1514				
12/23	210	210	210	106000	19880	115000		1515				
12/24	210	210	210	106500	20060	115500		1516				
12/25	210	210	210	107000	20240	116000		1517				
12/26	210	210	210	107500	20420	116500		1518				
12/27	210	210	210	108000	20600	117000		1519				
12/28	210	210	210	108500	20780	117500		1520				
12/29	210	210	210	109000	20960	118000		1521				
12/30	210	210	210	109500	21140	118500		1522				
12/31	210	210	210	110000	21320	119000		1523				

YOUNG DEEP UNIT #23

FIELD: North Young

COUNTRY: _____

STATE: _____

LEASE: PS

10/10/00

OPERATOR: _____

PERF.:

DATE COMPLETED: _____

MONTH	ACUM.	OIL/COND. - GALS.			OAS - MCP			WATER - GALS			O.O.R.	PRESSURE				INTEREST
		DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE		PRE.	SEV.	EMP.	REMARKS	
8/8	3809	28.4	1103	1103	0	0	0	828	828	415	100				24	DAYS
SEP	3507	20.6	599	1702	0	0	0	358	1210	293	100				29	
OCT	3812	20	506	2207	120	190	1701	571	1587	244	100				27	
NOV	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
DEC	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JAN	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
FEB	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
MAR	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
APR	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
MAY	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JUN	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JUL	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
AUG	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
SEP	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
OCT	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
NOV	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
DEC	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JAN	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
FEB	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
MAR	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
APR	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
MAY	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JUN	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
JUL	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
AUG	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
SEP	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
OCT	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
NOV	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	
DEC	3130	21.7	317	1520	1505	1701	1067	3644	440	440	100				31	

W: Young Deep 3 Fed #1

STATE:

FIELD:

COUNTRY:

OPERATOR:

LEASE:

ID LOC:

DATE COMPLETED:

RESERVOIR:

PERF:

DATE		OIL - SOLS.		OAS - MCP		WATER - SOLS		O.O.N.		PRESSURE			INTEREST	REMARKS
MONTH	DAY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	Q	B.M.	PRE.	OP.	SEC.		
APR	4526	26.10	425	355012	1210	303911	10442	216017	884	1527			31	
APR	4527	25.1	720	356013	1160	305071	10517	208018	894	1531			29	
APR	4528	26.4	173	357013	1139	306071	10539	209019	894	1535			29	
APR	4529	26.3	173	357013	1139	307071	10539	210019	894	1535			29	
APR	4530	26.4	173	358013	1139	308071	10539	211019	894	1535			29	
APR	4531	17.5	425	358841	917	309071	10539	212019	894	1535			28	
APR	4532	16.1	629	359056	945	310300	9709	251162	1551	1551			31	
APR	4533	20.8	219	360056	160	311056	370	300557	390	390			31	
APR	4534	21.9	539	360056	710	312056	3835	310747	1410	1410			31	
APR	4535	20.1	531	360397	1524	312394	10204	380061	1246	1246			31	
APR	4536	14.3	1481	3613078	1783	316007	10020	397081	1203	1203			30	
APR	4537	35.1	1675	362555	271	317085	10846	397127	8039	8039			31	
APR	4538	34.8	9566		5372		101482						29	
APR	4539	34.3	535	365189	1692	319075	3454	300581	2083	2083			22	
APR	4540	22.0	640	365724	1173	320848	7256	307837	2193	2193			22	
APR	4541	20.8	693	366304	1619	322467	8416	310303	2530	2530			29	
APR	4542	20.8	693	367057	1301	323708	8605	324708	1877	1877			28	
APR	4543	22.1	1684	367745	1799	325507	10160	335008	2605	2605			31	
APR	4544		1014		470		8708						30	
APR	4545		1127	360901	528	326571	9944	353654					30	
APR	4546		1105		551		10044						30	
APR	4547		1129		591		10554						30	
APR	4548		1123		1003		11539						30	
APR	4549		840		484		8945						28	
APR	4550		958	375056	416	329200	8603	403339					26	
APR	4551													
APR	4552													
APR	4553													
APR	4554													
APR	4555													
APR	4556													
APR	4557													
APR	4558													
APR	4559													
APR	4560													
APR	4561													
APR	4562													
APR	4563													
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APR	4565													
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APR	4572													
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FIELD: North Young PI: E Young Deep 3 Federal #1
 COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone) ID: LOC: Sec 3, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone) PERFS: DATE COMPLETED:

MONTH	ALLQ.	OIL & GAS - SOLS.			OIL & GAS - MCF			WATER - SOLS.			O.G.A.			PRESSURE			DAYS	REMARKS
		MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	PR.	SPR.	SWP.				
85		180	51607	555395	5905	200319	1775	39918	15.1	518							51	
SEP.		166	41543	555395	5168	216041	4121	411544	50.5	509							52	
OCT.		148	41573	555395	5228	215489	5772	479126	57.7	741							53	
NOV.		230	41567	555395	1792	217681	3771	50087	58.8	410							54	
DEC.		285	1897	555395	4007	224038	2940	53087	57.1	862							55	
JAN.		214	7211	555395	14536	230564	3818	54245	54.6	906							56	
FEB.		241	7145	555395	5227	236501	5267	66218	48.8	829							57	
MAR.		241	6013	555395	5248	241749	4426	66658	42.4	873							58	
APR.		242	5576	555395	4173	245922	5080	71718	47.7	748							59	
MAY.		205	5751	555395	4865	250787	2836	74554	33.0	846							60	
JUN.		200	5400	555395	4675	255462	2158	76712	28.6	866							61	
JUL.		186	5574	555395	2807	258269	4583	81295	45.1	504							62	
AUG.			51855			43158												
SEP.		175	4891	304360	2127	260396	5486	86781	52.9	455							28	
OCT.		158	4538	308647	1997	260203	4636	91407	51.9	443							27	
NOV.		133	4146	318788	3710	260073	4562	95976	55.4	804							31	
DEC.		123	3700	316492	3234	260837	4685	100601	55.5	874							30	
JAN.		113	3200	316492	3831	271468	5408	106009	61.1	656							30	
FEB.		108	3698	325584	3168	279630	3515	108534	40.5	585							29	
MAR.		91	3852	336407	3165	275795	3356	111880	54.3	767							31	
APR.		83	3579	338986	3713	279508	2406	114686	48.2	1440							31	
MAY.		79	3274	331360	1758	281666	41250	118536	44.2	741							30	
JUN.		93	3531	335281	1673	282929	4444	124980	43.8	664							27	
JUL.		70	1828	335709	980	283919	41259	127339	70.5	596							26	
AUG.		79	3357	338066	1876	285195	3935	131264	62.5	541							30	
SEP.			38597		26926		49969											
OCT.			340127		8149	287344	3579	134943	63.4	1043							31	
NOV.			341826		1403	288747	4929	139772	74.3	825							28	
DEC.			343558		1653	290200	6034	145866	71.6	054							31	
JAN.			345701		1716	292116	4590	150396	68.1	801							30	
FEB.			348245		1413	294249	6288	156634	72.7	857							28	
MAR.			350367		1691	297553	5929	162613	82.0	1744							29	
APR.			351386		1057	2997810	1057	172733	85.6	116							29	
MAY.			352134		992	2998802	3757	176547	82.2	1326							29	
JUN.			353154		1447	300221	1174	182714	81.3	1326							31	
JUL.			354174		1124	311122	5744	184419	81.3	1305							31	
AUG.			355194		1279	312551	7176	195023	89.7	1594							31	
SEP.			356214		17456													

PI: 8 Young Deep Unit 3 Federal #2

FILED:

COUNTY:

STATE:

LEASE:

LOC:

OPERATOR:

RESERVOIR:

PERF:

DATE COMPLETED:

DATE	MONTH	DAY	OIL - BBL		GAS - MCF		WATER - BBL		O.O.B.	PRESSURE			INTERESTS
			ACTUAL	CUMULATIVE	ACTUAL	CUMULATIVE	ACTUAL	CUMULATIVE		WELL	SEP.	OCT.	
9/1	434	11.3	355	14900	839	33313	1130	28712	74.2	2250			31
9/2	434	9.5	368	15268	390	33703	1716	30489	80.8	4350			38
9/3	434	9	375	15643	416	34119	2175	32664	88.1	1005			31
9/4	434	7	384	16027	442	34561	2623	35287	90.5	2187			30
9/5	434	7.5	391	16418	468	35029	3071	38358	92.9	3047			30
9/6	434	6.5	397	16815	494	35523	3519	41877	95.3	3947			31
9/7	434	6.1	403	17218	519	36042	3967	45844	97.7	4847			31
9/8	434	5.7	409	17627	544	36586	4415	50259	100.1	5747			31
9/9	434	5.1	415	18042	569	37155	4863	54722	102.5	6647			31
9/10	434	4.7	421	18463	594	37749	5311	59233	104.9	7547			31
9/11	434	4.3	427	18890	619	38368	5759	63792	107.3	8447			31
9/12	434	3.9	433	19323	644	39012	6207	68399	109.7	9347			31
9/13	434	3.5	439	19762	669	39681	6655	73054	112.1	10247			31
9/14	434	3.1	445	20207	694	40375	7103	77757	114.5	11147			31
9/15	434	2.7	451	20758	719	41104	7551	82508	116.9	12047			31
9/16	434	2.3	457	21315	744	41878	8000	87308	119.3	12947			31
9/17	434	1.9	463	21878	769	42697	8448	92156	121.7	13847			31
9/18	434	1.5	469	22447	794	43561	8896	97052	124.1	14747			31
9/19	434	1.1	475	23022	819	44470	9344	101996	126.5	15647			31
9/20	434	0.7	481	23603	844	45424	9792	107088	128.9	16547			31
9/21	434	0.3	487	24190	869	46433	10240	112228	131.3	17447			31
9/22	434	0.0	493	24783	894	47497	10688	117416	133.7	18347			31
9/23	434	0.0	499	25382	919	48616	11136	122652	136.1	19247			31
9/24	434	0.0	505	25987	944	49790	11584	127936	138.5	20147			31
9/25	434	0.0	511	26598	969	50919	12032	133268	140.9	21047			31
9/26	434	0.0	517	27215	994	52103	12480	138648	143.3	21947			31
9/27	434	0.0	523	27838	1019	53342	12928	144076	145.7	22847			31
9/28	434	0.0	529	28467	1044	54636	13376	149552	148.1	23747			31
9/29	434	0.0	535	29102	1069	55985	13824	155076	150.5	24647			31
9/30	434	0.0	541	29743	1094	57389	14272	160648	152.9	25547			31
9/31	434	0.0	547	30390	1119	58848	14720	166268	155.3	26447			31

STATE: New Mexico

OPERATOR: HEVCO

DATE COMPLETED:

[illegible]

Page 2

W-1 Young Deep 3 Fd 3

STATE:

FILED:

COUNTY:

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DATE COMPLETED:

RESERVOIR:

PERM:

DATE COMPLETED:

INTERESTS									
PRESSURE									
O.D.N.									
WATER - BOLS									
CHURCH - WILLS.									
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FIG. 8 Young Deep 3 Federal #3

FIELD: North Young

COUNTY: Lea

STATE: New Mexico

LEASE: Bone Springs ("B" Zone)

I.D./O.C.: Sec 3, T-18S, R-32W

OPERATOR: HEYCO

DATE COMPLETED:

MONTH	ALLOW.	OIL CONTROL - BOLS.		GAS - MCF		WATER - BOLS.		O.O.B.		PRESSURE			INTERESTS		
		DAILY	CUMULATIVE	DAILY	CUMULATIVE	DAILY	CUMULATIVE	%	B.P.M.	PTV.	STP.	END.			
85		20.7	642	23924	690	22794	1051	4911	62.1	1075			31	Days	REMARKS
AUG.		28.0	757	24681	1625	24419	94	5005	11.0	2147			27		
SEPT.		12.1	376	25057	801	25220	182	5187	32.6	2130			31		
OCT.		12.0	360	25417	293	25513	0	5187	0	814			30		
NOV.		8.1	251	25668	233	25746	0	5187	0	928			31		
DEC.		19.2	577	26245	231	25977	420	5607	42.1	400			30		
JAN.		19.1	573	26818	195	26170	647	6254	53.0	337			30		
FEB.		29	401	27219	379	26549	320	6574	44.4	945			31		
MAR.		20.2	607	27826	210	26759	167	7741	65.8	346			30		
APR.		17.7	548	28374	458	27217	57	7798	94	836			31		
MAY		17.1	445	28819	376	27593	42	7840	86	845			26		
JUN.		15.6	438	29257	1289	28882	15	7855	3.3	2943			28		
JUL.			5975		6778		3995								
AUG.		15.3	460	29717	1114	29996	60	7915	11.5	2422			30		
SEPT.		18.8	248	30065	2050	30293	0	7915	0	2103			27		
OCT.		18.3	570	30635	865	31716.7	113	8098	16.5	1517			31		
NOV.		17.0	529	31164	764	32531	10	8257	16.0	1500			30		
DEC.		16.8	535	31655	1139	33663	0	8257	0	1940			31		
JAN.		19.0	569	32264	1104	34774	0	8259	0	1951			31		
FEB.		13	409	32664	798	35458	0	8259	0	2369			31		
MAR.		18	374	33038	886	36105	0	8259	0	1881			30		
APR.		11	344	33382	647	37105	0	8189	0	1827			31		
MAY		13	415	33797	758	37863	0	8189	0	1543			30		
JUN.		9	278	34069	485	38288	0	8189	0	1619			31		
JUL.		10	310	34379	508	38790	0	8189	0						
AUG.			5182		9908		274								
SEPT.		9.6	298	34677	781	39511	0	8189	0	8420			31		
OCT.		20.3	686	35202	2416	40117	50	8179	7.3	872			28		
NOV.		20	1632	36735	1632	40769	61	8240	8.8	1032			31		
DEC.		19	573	36507	708	41471	666	8306	10.3	1227			30		
JAN.		30	1258	37299	1258	42729	118	8424	15.9	1051			31		
FEB.		7.9	838	37367	540	42660	0	8424	0	2276			30		
MAR.		14.4	2745	37915	1612	43272	0	8424	0				31		
APR.		13.1	4107	38322	2408	43924	0	8424	0	1125			27		
MAY		10.4	312	38530	195	43933	228	8424	0	637			30		
JUN.		7.5	244	38774	307	44281	217	8424	0	372			27		
JUL.		2.0	350	39024	209	44490	368	8424	0	1454			30		
AUG.		7.7	320	39344	209	44699	368	8424	0	1454			31		
SEPT.		4960	1619	4960	1619	1508									

North Young

North Young

COUNTRY:

Lee

STATE: New Mexico

FIELD:

1.0 LOC:

Sec 3, T-18S R-32E

ORIGINATOR: HEYCO

LIQUOR: _____
RESIDUUM: _____
Bone Springs ("B" Zone) _____

APPENDIX B.1

DATE COMPLETED:

15

FIELD: North Young PI: 8 Young Deep 3 Federal #4 COUNTY: Lea STATE: New Mexico

LEASE: BONE SPRINGS ("B" Zone) I.D./LOC: Sec 3, T-18S, R-32E OPERATOR: HEYCO

RESERVOIR: PERFS: DATE COMPLETED:

OIL CORO. - BOLS.				WATER - BOLS.				O.O.R.				PRESSURE				INTERESTS					
MONTHLY ALLOW.		CUMULATIVE		MONTHLY		CUMULATIVE		MONTHLY		CUMULATIVE		%		B.P.M.		FT. STP. SWP. SWP.		Days		REMARKS	
84																					

6108 to
15466 MCK

Young Deep 3 Federal #5

PI: 8

North Young

County: Lea

STATE: New Mexico

LEASE:

IDLOC:

Sec 3, T-18S, R-32E

OPERATOR:

HEYCO

RESERVOIR: Bone Springs ("B" Zone)

PERM:

DATE COMPLETED:

DATE	WORTH ALLOW.	GULFPORT - BELL		GAS - WCF		WATER - BELL		G.O.M.	PRESSURE			REMARKS
		POINT	WORTH	WORTH	WORTH	WORTH	WORTH		PT.	INT.	EXT.	
1987	1987	1987	1987	1987	1987	1987	1987	1987				
1988	1988	1988	1988	1988	1988	1988	1988	1988				
1989	1989	1989	1989	1989	1989	1989	1989	1989				
1990	1990	1990	1990	1990	1990	1990	1990	1990				
1991	1991	1991	1991	1991	1991	1991	1991	1991				
1992	1992	1992	1992	1992	1992	1992	1992	1992				
1993	1993	1993	1993	1993	1993	1993	1993	1993				
1994	1994	1994	1994	1994	1994	1994	1994	1994				
1995	1995	1995	1995	1995	1995	1995	1995	1995				
1996	1996	1996	1996	1996	1996	1996	1996	1996				
1997	1997	1997	1997	1997	1997	1997	1997	1997				
1998	1998	1998	1998	1998	1998	1998	1998	1998				
1999	1999	1999	1999	1999	1999	1999	1999	1999				
2000	2000	2000	2000	2000	2000	2000	2000	2000				
2001	2001	2001	2001	2001	2001	2001	2001	2001				
2002	2002	2002	2002	2002	2002	2002	2002	2002				
2003	2003	2003	2003	2003	2003	2003	2003	2003				
2004	2004	2004	2004	2004	2004	2004	2004	2004				
2005	2005	2005	2005	2005	2005	2005	2005	2005				
2006	2006	2006	2006	2006	2006	2006	2006	2006				
2007	2007	2007	2007	2007	2007	2007	2007	2007				
2008	2008	2008	2008	2008	2008	2008	2008	2008				
2009	2009	2009	2009	2009	2009	2009	2009	2009				
2010	2010	2010	2010	2010	2010	2010	2010	2010				
2011	2011	2011	2011	2011	2011	2011	2011	2011				
2012	2012	2012	2012	2012	2012	2012	2012	2012				
2013	2013	2013	2013	2013	2013	2013	2013	2013				
2014	2014	2014	2014	2014	2014	2014	2014	2014				
2015	2015	2015	2015	2015	2015	2015	2015	2015				
2016	2016	2016	2016	2016	2016	2016	2016	2016				
2017	2017	2017	2017	2017	2017	2017	2017	2017				
2018	2018	2018	2018	2018	2018	2018	2018	2018				
2019	2019	2019	2019	2019	2019	2019	2019	2019				
2020	2020	2020	2020	2020	2020	2020	2020	2020				
2021	2021	2021	2021	2021	2021	2021	2021	2021				
2022	2022	2022	2022	2022	2022	2022	2022	2022				
2023	2023	2023	2023	2023	2023	2023	2023	2023				
2024	2024	2024	2024	2024	2024	2024	2024	2024				
2025	2025	2025	2025	2025	2025	2025	2025	2025				

FIELD: North Young WIRE: Young Deep 3 Federal #5 COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone) ID LOC: Sec 3, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone) PERFS.: DATE COMPLETED:

MONTH ALLOW.	OIL/COND. - BOLS.			GAS - MCF			WATER - BOLS.			O.O.R.			PRESSURE			INTERESTS
	DAILY	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	%	B.P.M.	PPH.	STP.	SHD.	DAYS	REMARKS		
JAN.																
FEB.																
MAR.																
APR.																
MAY																
JUN.																
JUL.																
AUG.																
SEP.																
OCT.																
NOV.																
DEC.																
TOTAL																
JAN.	2728	66	1970	66502	7874	113736	0	130	0	3997				30		
FEB.	2464	60	1681	66883	6557	120293	0	130	0	3900				58		
MAR.	2728	56.7	1765	69948	6430	126723	0	130	0	3643				31		
APR.	2640	34.5	1035	70923	6023	132946	0	130	0	6012				30		
MAY	2728	46.0	1457	73411	6674	134120	0	130	0	4856				21		
JUN.	2640	44.3	1384	73294	5916	141984	0	130	0	4607				29		
JUL.	2728	37	1159	74853	5706	150212	0	130	0	4953				31		
AUG.	2728	29	835	75688	4845	154887	0	130	0	5084				29		
SEP.	2449	48	1430	77118	4301	159187	0	130	0	3007				30		
OCT.	2488	42	1291	78409	5170	164357	0	130	0	4005				31		
NOV.	2440	35	1052	79461	3004	167361	0	130	0	2856				30		
DEC.	2488	16	487	79948	3366	170767	0	130	0	2912				31		
TOTAL			15416	64865			0									

Mr. Young Deep 4 Federal #1

FIELD: North Young

COUNTY: Lea

STATE: New Mexico

LEASE: Bone Springs (2nd Sand)

10/LOC: Sec 4, T-18S, R-32E

OPERATOR: HEYCO

RESERVOIR: Bone Springs (2nd Sand)

FMFSJ: 8791-88321

DATE COMPLETED: 3/1/84

INTEREST												
MONTHLY ALLOW.		OIL/GAS - SOLS.		OAS - MCP		WATER - SOLS		O.O.R.		PRESSURE		REMARKS
SEAL	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	B.P.M.	PR.	SEP.	SEP.	
87	2863	468	1452	19868	4416	15355	0	0	3179			216
88	2863	468	1452	81068	3321	16716	0	0	1937			28
89	2863	468	1452	82295	1921	61501	0	0	1429			31
90	2863	468	1452	82295	21160	101757	0	0	1601			20
91	2863	468	1452	82295	21160	101757	0	0	1702			31
92	2863	468	1452	82295	21160	101757	0	0	1811			30
93	2863	468	1452	82295	21160	101757	0	0	1947			31
94	2863	468	1452	82295	21160	101757	0	0	2005			31
95	2863	468	1452	82295	21160	101757	0	0	1671			30
96	2863	468	1452	82295	21160	101757	0	0	1671			31
97	2863	468	1452	82295	21160	101757	0	0	1671			30
98	2863	468	1452	82295	21160	101757	0	0	1671			25
99	2863	468	1452	82295	21160	101757	0	0	1671			28
100	2863	468	1452	82295	21160	101757	0	0	1671			29
101	2863	468	1452	82295	21160	101757	0	0	1671			31
102	2863	468	1452	82295	21160	101757	0	0	1671			30
103	2863	468	1452	82295	21160	101757	0	0	1671			31
104	2863	468	1452	82295	21160	101757	0	0	1671			30
105	2863	468	1452	82295	21160	101757	0	0	1671			31
106	2863	468	1452	82295	21160	101757	0	0	1671			30
107	2863	468	1452	82295	21160	101757	0	0	1671			31
108	2863	468	1452	82295	21160	101757	0	0	1671			30
109	2863	468	1452	82295	21160	101757	0	0	1671			31
110	2863	468	1452	82295	21160	101757	0	0	1671			30
111	2863	468	1452	82295	21160	101757	0	0	1671			31
112	2863	468	1452	82295	21160	101757	0	0	1671			30
113	2863	468	1452	82295	21160	101757	0	0	1671			31
114	2863	468	1452	82295	21160	101757	0	0	1671			30
115	2863	468	1452	82295	21160	101757	0	0	1671			31
116	2863	468	1452	82295	21160	101757	0	0	1671			30
117	2863	468	1452	82295	21160	101757	0	0	1671			31
118	2863	468	1452	82295	21160	101757	0	0	1671			30
119	2863	468	1452	82295	21160	101757	0	0	1671			31
120	2863	468	1452	82295	21160	101757	0	0	1671			30
121	2863	468	1452	82295	21160	101757	0	0	1671			31
122	2863	468	1452	82295	21160	101757	0	0	1671			30
123	2863	468	1452	82295	21160	101757	0	0	1671			31
124	2863	468	1452	82295	21160	101757	0	0	1671			30
125	2863	468	1452	82295	21160	101757	0	0	1671			31
126	2863	468	1452	82295	21160	101757	0	0	1671			30
127	2863	468	1452	82295	21160	101757	0	0	1671			31
128	2863	468	1452	82295	21160	101757	0	0	1671			30
129	2863	468	1452	82295	21160	101757	0	0	1671			31
130	2863	468	1452	82295	21160	101757	0	0	1671			30
131	2863	468	1452	82295	21160	101757	0	0	1671			31
132	2863	468	1452	82295	21160	101757	0	0	1671			30
133	2863	468	1452	82295	21160	101757	0	0	1671			31
134	2863	468	1452	82295	21160	101757	0	0	1671			30
135	2863	468	1452	82295	21160	101757	0	0	1671			31
136	2863	468	1452	82295	21160	101757	0	0	1671			30
137	2863	468	1452	82295	21160	101757	0	0	1671			31
138	2863	468	1452	82295	21160	101757	0	0	1671			30
139	2863	468	1452	82295	21160	101757	0	0	1671			31
140	2863	468	1452	82295	21160	101757	0	0	1671			30
141	2863	468	1452	82295	21160	101757	0	0	1671			31
142	2863	468	1452	82295	21160	101757	0	0	1671			30
143	2863	468	1452	82295	21160	101757	0	0	1671			31
144	2863	468	1452	82295	21160	101757	0	0	1671			30
145	2863	468	1452	82295	21160	101757	0	0	1671			31
146	2863	468	1452	82295	21160	101757	0	0	1671			30
147	2863	468	1452	82295	21160	101757	0	0	1671			31
148	2863	468	1452	82295	21160	101757	0	0	1671			30
149	2863	468	1452	82295	21160	101757	0	0	1671			31
150	2863	468	1452	82295	21160	101757	0	0	1671			30
151	2863	468	1452	82295	21160	101757	0	0	1671			31
152	2863	468	1452	82295	21160	101757	0	0	1671			30
153	2863	468	1452	82295	21160	101757	0	0	1671			31
154	2863	468	1452	82295	21160	101757	0	0	1671			30
155	2863	468	1452	82295	21160	101757	0	0	1671			31
156	2863	468	1452	82295	21160	101757	0	0	1671			30
157	2863	468	1452	82295	21160	101757	0	0	1671			31
158	2863	468	1452	82295	21160	101757	0	0	1671			30
159	2863	468	1452	82295	21160	101757	0	0	1671			31
160	2863	468	1452	82295	21160	101757	0	0	1671			30
161	2863	468	1452	82295	21160	101757	0	0	1671			31
162	2863	468	1452	82295	21160	101757	0	0	1671			30
163	2863	468	1452	82295	21160	101757	0	0	1671			31
164	2863	468	1452	82295	21160	101757	0	0	1671			30
165	2863	468	1452	82295	21160	101757	0	0	1671			31
166	2863	468	1452	82295	21160	101757	0	0	1671			30
167	2863	468	1452	82295	21160	101757	0	0	1671			31
168	2863	468	1452	82295	21160	101757	0	0	1671			30
169	2863	468	1452	82295	21160	101757	0	0	1671			31
170	2863	468	1452	82295	21160	101757	0	0	1671			30
171	2863	468	1452	82295	21160	101757	0	0	1671			31
172	2863	468	1452	82295	21160	101757	0	0	1671			30
173	2863	468	1452	82295	21160	101757	0	0	1671			31
174	2863	468	1452	82295	21160	101757	0	0	1671			30
175	2863	468	1452	82295	21160	101757	0	0	1671			31
176	2863	468	1452	82295	21160	101757	0	0	1671			30
177	2863	468	1452	82295	21160	101757	0	0	1671			31
178	2863	468	1452	82295	21160	101757	0	0	1671			30
179	2863	468	1452	82295	21160	101757	0	0	1671			31
180	2863	468	1452	82295	21160	101757	0	0	1671			30
181	2863	468	1452	82295	21160	101757	0	0	1671			31
182	2863	468	1452	82295	21160	101757	0	0	1671			30
183	2863	468	1452	82295	21160	101757	0	0	1671			31
184	2863	468	1452	82295	21160	101757	0	0	1671			30
185	2863	468	1452	82295	21160	101757	0	0	1671			

WELL: Young Deep Unit 4 Federal #1

FIELD: North Young

COUNTY: Lea

STATE: New Mexico

LEASE:

SEC 4, T-18S, R-32E

OPERATOR: HEYCO

RESERVOIR: Bone Springs (2nd Sand)

ID/LOC: 8791-8832'

DATE COMPLETED: 3-1-84

MONTH	ALLOW.	OIL/DWG. - O&L			GAS - MCP			WATER - O&L			G.O.R.			PRESSURE			INTERESTS
		DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	DAILY	MONTHLY	CUMULATIVE	B.P.M.	FT.	STP.	STP.	STP.	DAYS	REMARKS
JAN.		85.3	682	682		760	760				114						8
FEB.		141.6	3539	4221		2375	3135				671						25
MAR.		104.7	3142	7363		2850	5985				907						30
APR.		95.6	2581	9944		2619	8604				1015						27
MAY		107.4	2148	12092		4710	9574				452						20
JUN.		99.5	3084	15176		3007	12581				975						31
JUL.		96.3	2984	18160		3007	15588				1038						31
SEP.		93.5	2805	20965		3007	18595				1072						30
OCT.		90.1	2192	23157		3007	21602				1077						31
NOV.		84.2	2527	26284		2910	24512				1152						30
DEC.		80.3	2488	28772		2356	26868				947						31
JAN.		73.8	2287	31059		1940	28908				848						31
FEB.		85.3	2303	33362		2007	30815				871						27
MAR.		75.7	2347	35709		1936	32751				825						31
APR.		71.2	2136	37845		2272	35023				1064						30
MAY		67.8	2103	39948		916	35939				436						31
JUN.		65.8	1973	41921		5383	41322				2728						30
JUL.		69.0	2139	44060		9089	50411				4249						31
AUG.		65.0	2015	46075		1825	52234				905						31
SEP.		61.5	1844	47919		6694	58928				3630						30
OCT.		61.8	1853	49772		1609	60537				868						30
NOV.		75.7	2272	52044		1516	62053				667						30
DEC.		91.2	2827	54871		1585	63638				561						31
JAN.		149	26099	59329		36770	65349				384						30
FEB.		1904	1972	61301		479	65828				242						28
MAR.		6.3	1981	63282		2530	68358				1277						31
APR.		102	1798	65080		2166	70414				1171						29
MAY		6.1	1996	67076		3132	73602				1572						31
JUN.		660	1970	69046		2179	75781				1106						30
JUL.		58	1785	70831		2315	78096				1297						31
AUG.		58	1597	72428		2705	80801				1694						31
SEP.		52	1566	73994		2733	83524				1745						30
OCT.		54	1606	75600		2596	86130				1558						31
NOV.		47	1407	77067		2281	88411				1621						30
DEC.		43	1343	78410		2328	90739				1722						31
TOTAL			23539			27101											

STAT:

DATE COMPLETED:

DATA COMPLETED:

[illegible]

FIELD: North Young PR: Young Deep Unit 4 Federal #2 COUNTY: Lea STATE: New Mexico
 LEASE: Bone Springs ("B" Zone Carb.) I.D./LOC: Sec 4, T-18S, R-32E OPERATOR: HEYCO
 RESERVOIR: Bone Springs ("B" Zone Carb.) PERM: DATE COMPLETED:

DATE	TIME	OIL/CARB. - BBL'S		GAS - MCF		WATER - BBL'S		G.O.R.		PRESSURE			INTERESTS
		START	END	START	END	START	END	B.P.M.	FT.	STP.	END.	Days	REMARKS
85													
85		254	7874	288750	9552	214445	15872	192569	668	1213		31	
85		273	7371	296121	3158	217603	5427	197996	424	428		27	
85		297	8910	305031	5850	223453	17160	215156	658	657		30	
85		286	8580	313611	5730	229183	19500	234656	694	668		30	
85		286	8866	322477	5518	234701	21874	256530	712	622		31	
85		273	8204	330681	5152	239853	22297	218827	731	628		30	
85		298	7148	338429	4784	244637	19006	297833	710	617		26	
85		178	3916	342345	4444	249081	15267	313100	796	1135		22	
85		8790	1516	4045	2566	251647	21125	334225	839	634		26	
85		4083	154	4781	2487	254134	17658	351883	87	520		31	
85		8790	164	4916	351087	3326	257460	385559	973	677		30	
85		4083	179	5382	361464	3697	261157	408936	913	687		30	
85				80593	56264	233239							
85		9083	155	4658	366127	3032	264189	17454	426390	789	651	30	
85		2296	171	4798	370925	3058	267247	23670	450010	931	637	35	
85		9083	153	4714	375689	2819	270646	36755	486815	985	591	31	
85		2-00	131	5016	379125	2151	272752	41297	534212	923	1674	30	
85		4083	106.7	3306	382053	2331	275752	28320	556528	870	704	31	
85		8790	116	3488	386415	2740	277793	21578	578110	861	787	30	
85		4083	125	3878	390293	2279	280076	21215	599328	845	538	31	
85		9083	127	3929	394658	1928	282000	21481	620864	845	491	31	
85		3930	105	3985	397307	1378	283378	20670	641474	870	447	30	
85		4061	113	3512	400819	1647	285035	21359	660833	859	469	31	
85		3930	139	4175	404994	2630	287655	15990	678823	793	630	30	
85		4061	120	4039	409033	2480	290135	16523	695346	804	614	31	
85				47564	28978		286410						
85		4061	124	2584	413617	2145	293530	15990	711576	817	961	30	
85		2468	124.7	3405	416109	2005	296580	22316	731552	814	709	32	
85		4061	121	3765	419874	3839	300219	24707	758759	817	1030	31	
85		3930	120	3603	423477	3578	302907	23311	791670	902	993	30	
85				3785	427262	4136	308433	15825	806952	801	1172	31	
85		3930	111	3104	430366	2450	310983	19124	826076	810	795	32	
85		4061	116.7	3509	433875	1974	318857	30496	846510	817	512	30	
85		4061	129.2	27166	436641	1714	314575	21173	816739	814	621	31	
85		3930	107.9	2458	429729	1904	316539	20490	888229	819	636	30	
85		3930		2458	442104	2154	318023	20431	903110	814	530	31	
85		3930		2458	445198	2154	321445	20490	929550	819	561	30	
85		3930		2458	449113	2096	323521	21035	950585	816	707	31	
85				39120	33246		255239						

Page 2

Mr. Young Deep 4-3

STATE:

COUNTY:

FIELD:

ID LOC:

OPERATOR:

RESERVOIR:

PERMS:

DATE COMPLETED:

MONTH ALLOM.	OIL - OILS			GAS - MCP			WATER - OILS			O.O.M.			PRESSURE			REMARKS
	DATE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	DATE	MONTHLY	CUMULATIVE	DATE	PR.	ERR.	ERR.	ERR.	ERR.	
1860	5.19	1454	45014	2571	99884	0				17108						28
1740	48.4	1417	66431	2592	102476	0				1829						29
1860	46.5	1442	67873	2706	105182	0				1877						31
1800	42.9	1272	108946	2719	107901	0				2534						35
1860	39.1	1215	70161	2804	110705	0				2308						31
1860	39.9	1158	71319	2632	113337	0				2273						29
1860	40.4	1174	72493	2772	116109	0				2361						29
1860	38.8	1128	73685	2048	119057	0				2613						29
1170	34.7	1050	74411	2510	121573	0				2390						29
1170	43.9	219	75990	2039	124162	0				2304						30
1170	44.6	1249	77239	2458	127470	0				2288						28
1170	46.1	1153	78392	2449	129919	0				2124						25
185		1493		20306												
185	52.1	1460	79852	2939	133858					2073						28
185	43.5	1177	81027	2437	135497					2247						27
185	40.2	1142	82171	2913	138410					2550						28
185	37.3	1046	83217	2172	140582					2076						28
185	30.4	982	44099	2011	142593					2280						29
185	913			2201												25
185	1122		84134	3000	147794											30
185	1080			2734												31
185	1037			2454												28
185	999			2371												28
185	905			2022												26
185	1183		91338	2513	159894											31

FILE: Young Deep Unit 4 Federal #3
COUNTY: Lea
STATE: New Mexico
FIELD: North Young
ID/LOC: Sec 4, T-18S, R-32E
OPERATOR: HEYCO

LEASE: Bone Springs (2nd Sand)
PERMS: DATE COMPLETED:

RESERVOIR:										INTERESTS								
MONTHLY ALLOW.		OIL COMD. - BOLS.			GAS - MCF			WATER - BOLS.			O.D.R.			PRESSURE			Days	REMARKS
		MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	MONTHLY	CUMULATIVE	B.P.M.	FW.	STP.	END.			
SEP. 85																		
OCT.	4681	167.4	3682	3682	3509	3509	0	0	0	0	453					22		
NOV.	4530	152.6	4578	9260	3265	6774	0	0	0	0	713					30		
DEC.	4681	140	4067	12327	3219	9993	0	0	0	0	791					29		
JAN.	1086		12327		9993													
FEB.	4681	51	1487	13814	3473	13466					2336					29		
MAR.	4681	110	3095	13924	3583	14290	0	0	0	0	301					31		
APR.	4681	106	3201	14030	3689	14594	0	0	0	0	306					30		
MAY	4681	113	3314	14143	3802	14909	0	0	0	0	300					31		
JUN.	4681	95	2646	85907	3529	27118	0	0	0	0	1327					30		
JUL.	4681	90	2791	88743	4483	31541	0	0	0	0	1560					31		
AUG.	4681	113	2498	34032	4810	40466	0	0	0	0	1474					31		
SEP.	3180	88	2450	36482	4858	45324	0	0	0	0	1983					30		
OCT.	3286	84	2606	39088	4614	49938	0	0	0	0	1771					31		
NOV.	3180	75	2801	41889	4056	53994	0	0	0	0	1843					30		
DEC.	3286	68	2101	42290	4140	58134	0	0	0	0	1970					31		
JAN.	1081		31063		48141		0											
FEB.	2986	73.3	2273	45663	4926	60240	0	0	0	0	3610					31		
MAR.	2916	61.5	1722	47385	5206	69546	0	0	0	0	1861					28		
APR.	3286	62	1926	49311	5629	72235	0	0	0	0	1396					31		
MAY	3090	65	1642	51353	5982	75217	0	0	0	0	1536					30		
JUN.	3286	63	1948	53391	6284	78201	0	0	0	0	1684					31		
JUL.	3180	51	1537	54929	6498	81299	0	0	0	0	1885					30		
AUG.	3286	44	1290	56028	6810	84109	0	0	0	0	2178					31		
SEP.	3286	49	1529	57557	7163	87272	0	0	0	0	2067					31		
OCT.	1460	51	1521	59078	2615	89881	0	0	0	0	1719					30		
NOV.	1460	51	1521	60599	2725	92032	0	0	0	0	1828					29		
DEC.	1460	50	1552	62151	2848	94471	0	0	0	0	1929					30		
JAN.	1460	50	1552	63703	2969	97313	0	0	0	0	2031					31		
FEB.			20190		39119													

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

February 14, 1989

6775

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: William LeMay, Director

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1989 Plan of Development and
Operation

Gentlemen:

Harvey E. Yates Company, as Unit Operator, timely submitted the Plan of Development and Operations for the Young Deep Unit to the Bureau of Land Management, pursuant to Section 10 of the unit agreement.

Enclosed for your information and files is a copy of said Plan of Development showing approval by the BLM.

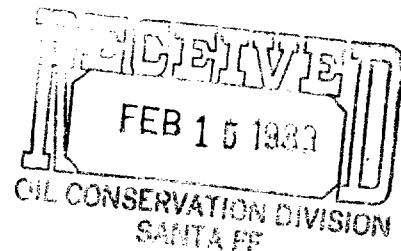
If you find this plan to be in order, we shall appreciate your granting like approval for this POD. A similar letter has been sent to the attention of the Director of the Oil & Gas Division of the office of the Commissioner of Public Lands.

Yours very truly,

Rosemary T. Avery
Rosemary T. Avery
Senior Landman

RTA/dlm
Enclosure

ydupd89o/LL



HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

PO BOX 1933

ONE SUNWEST CENTER

505-623-6601

FAX 505-622-4221

ROSWELL, NEW MEXICO 88202-1933

January 31, 1989

FEB 13 1989

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Assistant District Manager,
Minerals

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1989 Plan of Development and
Operation

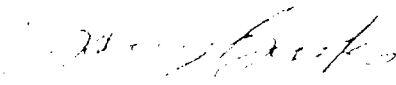
Gentlemen:

Pursuant to Section 10 of the Young Deep Unit Agreement, Harvey E. Yates Company (HEYCO) hereby submits the enclosed 1989 Plan of Development and Operation.

Also enclosed is a current unit map showing all existing wells and their status.

If this material is satisfactory, we will appreciate your approval of this Plan of Development/Operations. If there is anything further we are required to furnish, please let the undersigned know right away so that we can supply the missing data.

Very truly yours,


Larry L. Brooks
Geologist

LLB/dlm
Enclosures

ydupd89B/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1397

ONE SUITEWEST CENTRE

505/623 0601

FAX 505/622 4221

ROSWELL, NEW MEXICO 88202-1933

January 31, 1989

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1989 Plan of Development and
Operation

Gentlemen:

Harvey E. Yates Company, as Unit Operator, submits this 1989 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

1985 was the fifth anniversary of the Young Deep Unit. At that time, the outline of the Young Deep Unit contracted to the S/2 of Section 3, the S/2 of Section 4, all of Section 9 and all of Section 10, T-18S, R-32E, Lea County, New Mexico. This is the present configuration of the Young Deep Unit.

The pressure maintenance project, which began in 1982 in Sections 3 and 10, has continued with good success. Wells currently used for injection of water into the Bone Spring formation include the Young Deep Unit #2, 660' FNL and 1980' FWL of Section 10, the Young Deep Unit #1, 660' FNL and 660' FWL of Section 10 and the Young Deep Unit #5, 660' FNL and 1980' FEL of Section 10. Average injection rate is 1096 BWPD into the #1, 932 BWPD into the #2 and 943 BWPD into the #5 well. Cumulative injection into these three wells at the end of December, 1988, was 6,639,054 BW.

January 31, 1989
Bureau of Land Management
Re: Young Deep Unit

Page 2

Oil prices fluctuated during 1988, slightly more attractively than in 1987. There is still some apprehension to future endeavors, though. Even so, Harvey E. Yates Company drilled the Young Deep Unit #23, 2310' FSL and 1980' FEL of Section 9, T-18S, R-32E, in November of 1987 and completed it in January, 1988 for P123 BOPD and 135 MCFGPD and 18 BWPD. This is the same zone that the wells to the north produce from and the interval under pressure maintenance in Sections 3 and 10. This well also confirmed that the 2nd Bone Spring sand is reservoir quality and behind pipe at present. The area to the south of this well has been remapped and evaluated for 1st and 2nd Bone Spring sand potential.

The Young Deep Unit #8, 660' FNL and 860' FEL of Section 9, T-18S, R-32E, was originally drilled and completed in October 1985. Cores taken from the "B" zone (2nd carbonate) indicated the #8 was a reservoir edge well. Subsequent poor production confirmed this. After reevaluation of the 2nd Bone Spring sand reservoir, it was determined that the Young Deep Unit #8 would be an excellent well to try a horizontal drain hole type completion. The horizontal drilling was completed in December of 1987. Samples obtained yielded good stain, fluorescence, cuts and odor, and apparent rock flour. Under further evaluation, the rock flour appears to be authigenetic clay, occurring in thin horizontal laminations. As stated before, this is a pilot project. Our next step in 1988 was to enter into an agreement with Sandia National Laboratories. This agreement is designed to research and explore this condition further, and to design a horizontal stimulation technique. We have had several meetings with Sandia and have set the ground work for various coring, testing and stimulation programs to further evaluate the Young Deep Unit. Commencement should be by the middle of 1989.

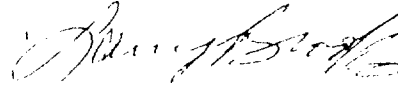
Posted prices are still fluctuating, though there has been a slight rise in prices from January, 1988. Harvey E. Yates Company, like so many other companies, is still operating at reduced levels. We are pursuing different approaches to enable us to drill and develop more wells this year, and with a lot of effort we will be able to add high-tech research to our unit development operations. In December of 1988, we drilled the West Young "8" Federal #1, 1650' FSL and 990' FEL, Section 8, T-18S, R-32E, which is just outside of the Young Deep Unit boundary to the west. This well was drilled to prove a possible location in the NW/4 SW/4 of Section 9, T-18S, R-32E, which is within the Young Deep Unit. It is currently being evaluated. If the carbonate producing zone does not develop in the S/2 of Section 9, T-18S, R-32E, the sands will. Attached are schedules showing cumulative oil and gas production for 1988, along with the complete set of decline curves depicting the life of production from each unit well.

January 31, 1989
Bureau of Land Management
Re: Young Deep Unit

Page 3

I hope this summary is adequate and informative. Also, I hope this will be approved as prudent developmental effort for the Young Deep Unit.

Respectfully submitted,



Larry L. Brooks,
Geologist

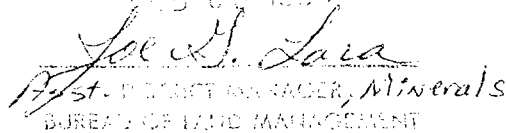
LLB/dlm

Enclosures

ydupod89/LL

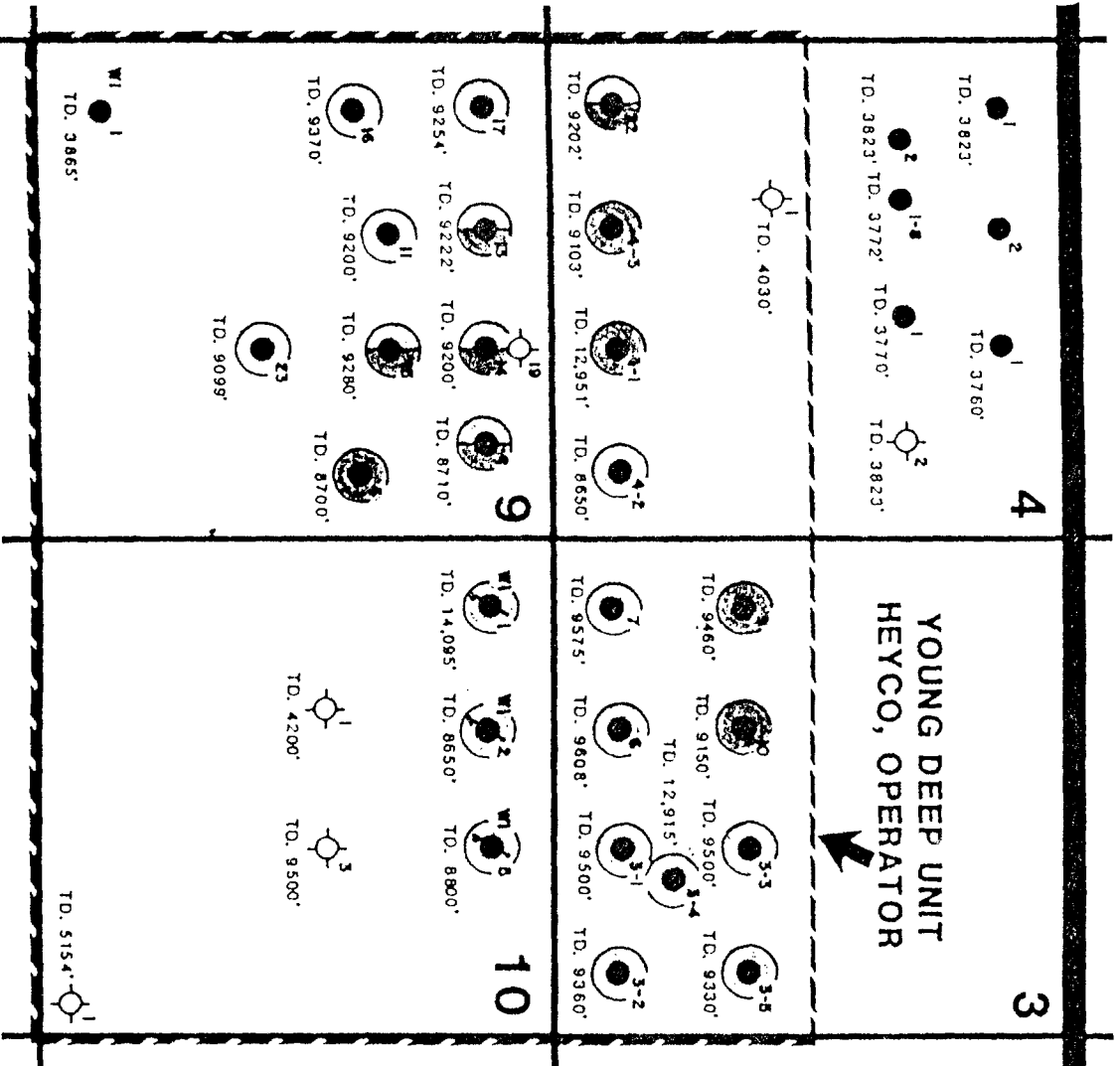
Mineral Development
100-100000

FEB 09 1989



Joe A. Lara
District Manager, Minerals
BUREAU OF LAND MANAGEMENT

R - 32 - E



BONE SPRING FORMATION
PRODUCING HORIZONS
(PROVEN)

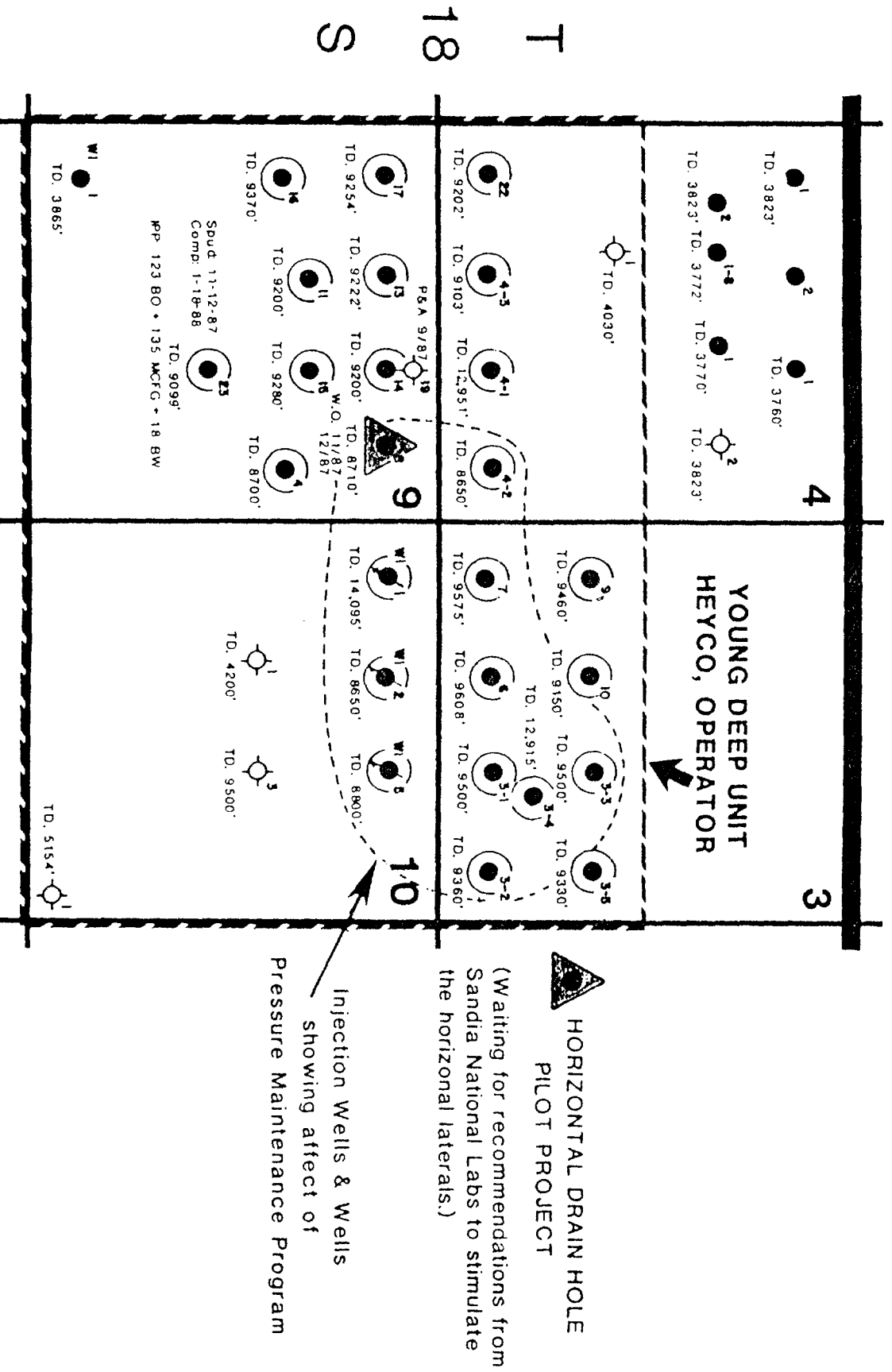
○ "B" Zone (2nd) Carbonate

● 2nd Bone Spring Sand

T
18
S

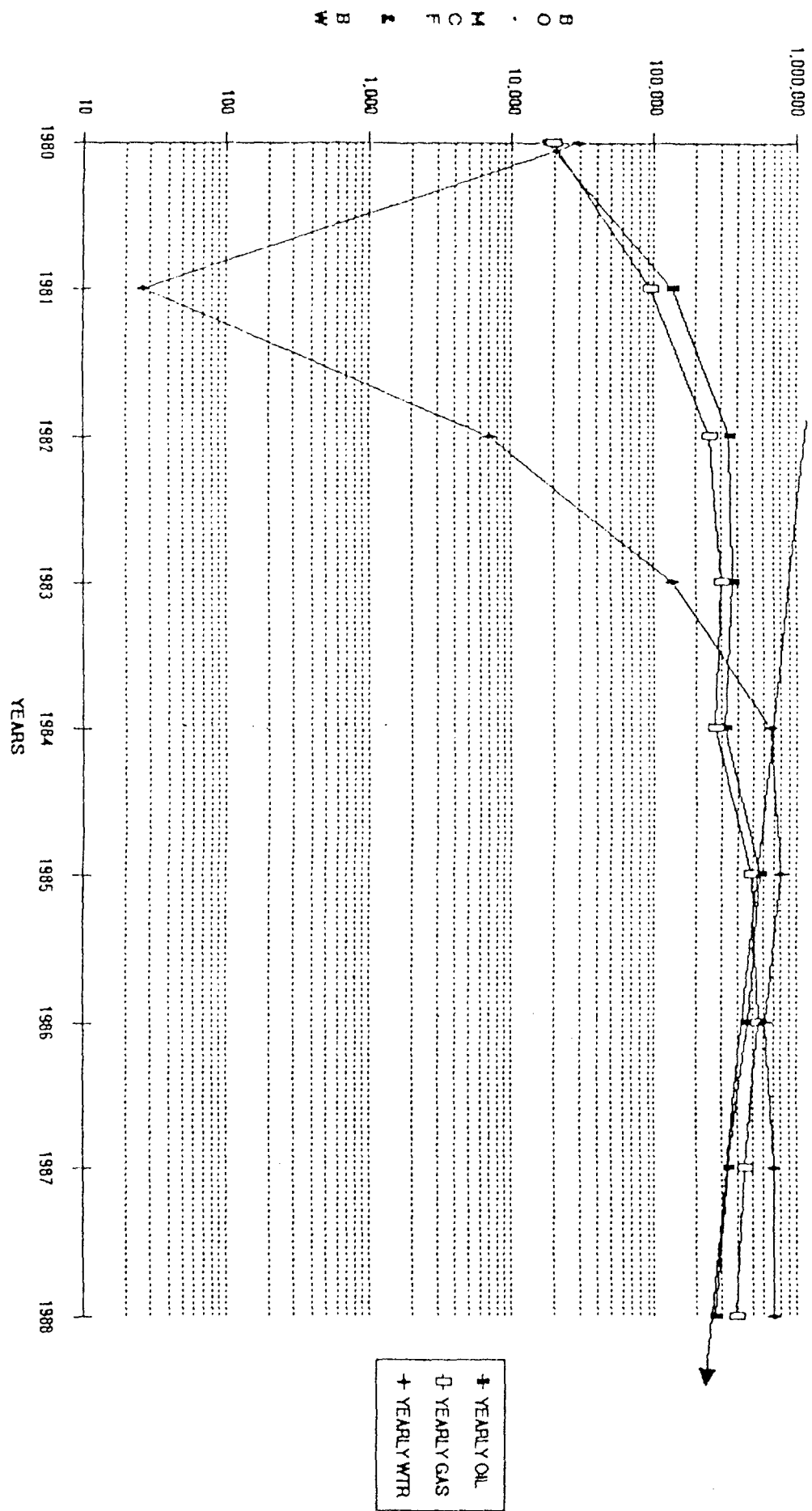
JAN. 1989

R - 32 - E

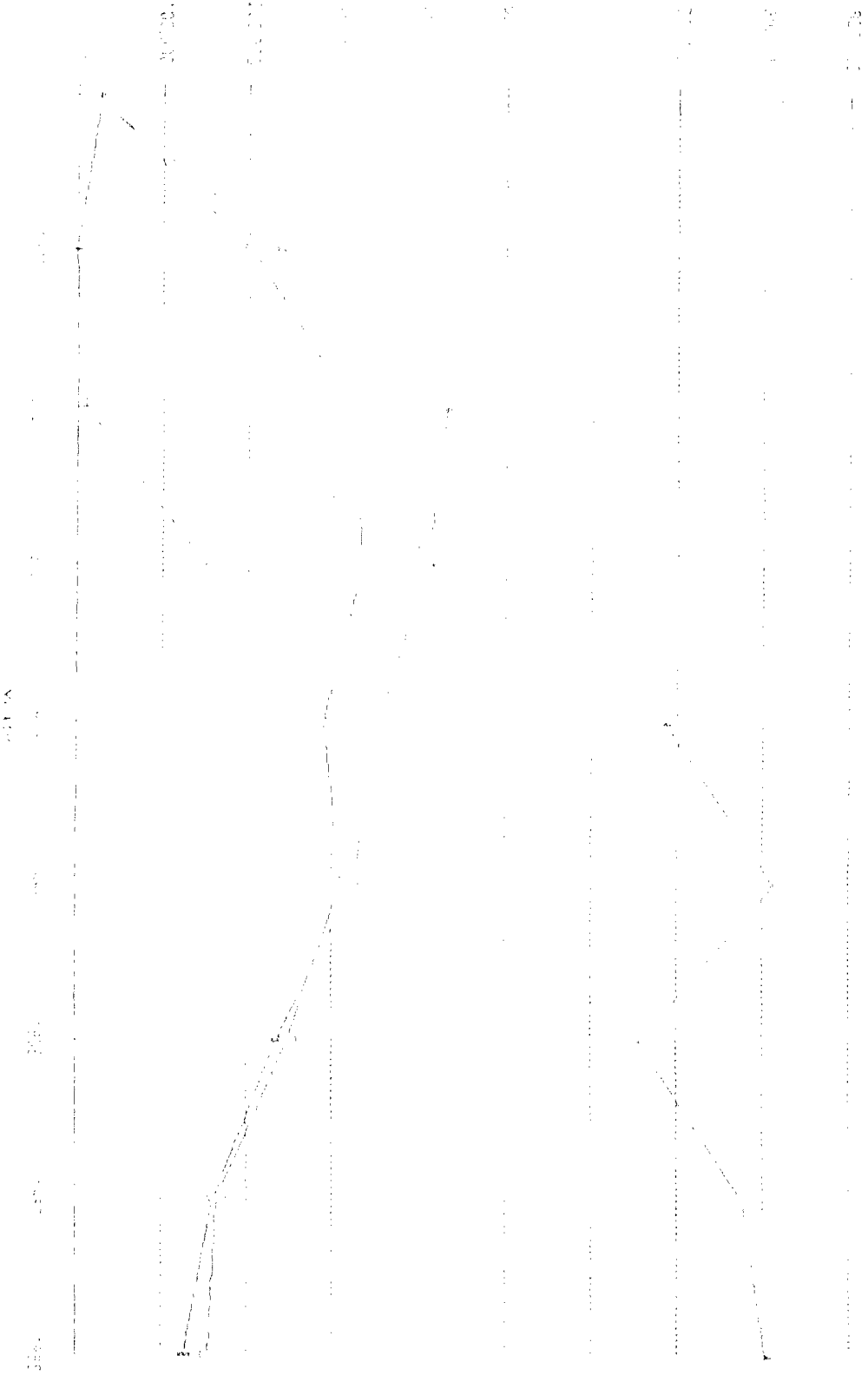


JAN. 1989

ENTIRE YOUNG DEEP UNIT PRODUCTION

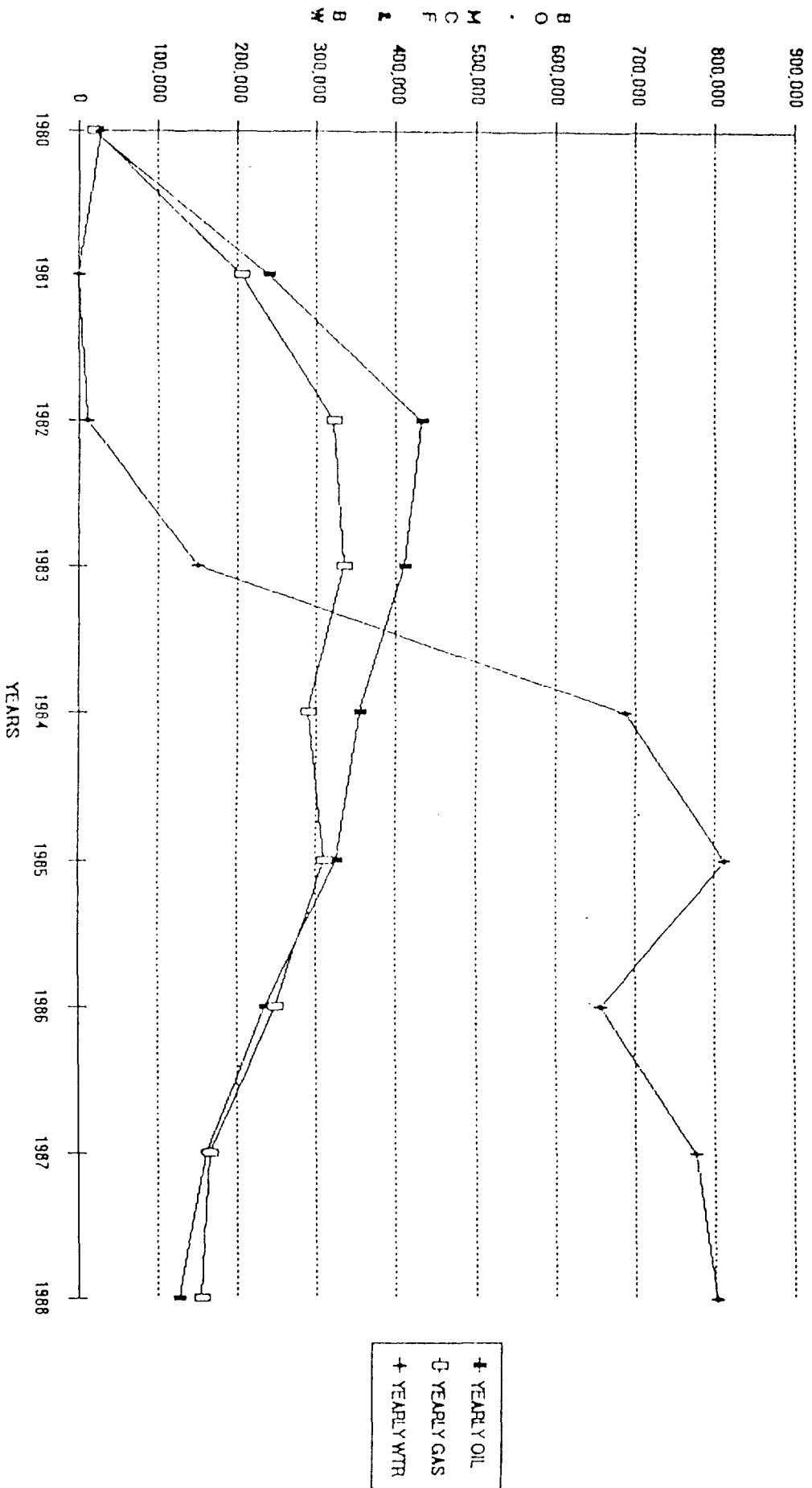


YOUNG DEEP PRESSURE MAINTENANCE PRODUCTION

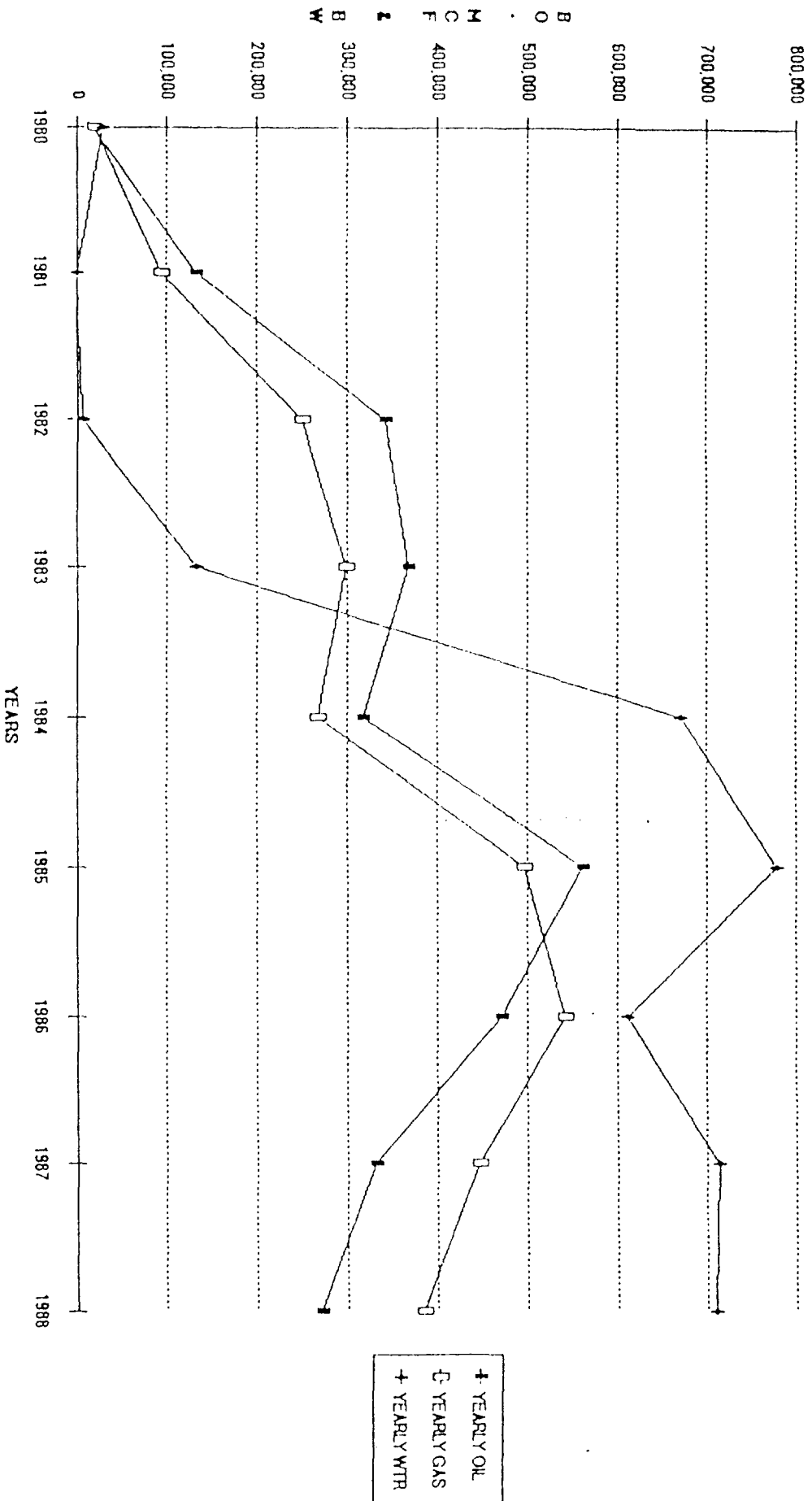


WELL NO. 1
DATE: 1/1/60
TIME: 10:00 AM

YOUNG DEEP PRESSURE MAINTENANCE PRODUCTION



ENTIRE YOUNG DEEP UNIT PRODUCTION



1. TITLE AND DATES
 2. PREPARED BY
 3. DATE
 4. PROJECT NO.
 5. DRAWING NO.
 6. SHEET NO.

NO.	DESCRIPTION	DATE
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4	4.0000	4.0000
5	5.0000	5.0000
6	6.0000	6.0000
7	7.0000	7.0000
8	8.0000	8.0000
9	9.0000	9.0000
10	10.0000	10.0000

NO.	DESCRIPTION	DATE
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19	19.0000	19.0000
20	20.0000	20.0000

NO.	DESCRIPTION	DATE
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95	95.0000	95.0000
96	96.0000	96.0000
97	97.0000	97.0000
98	98.0000	98.0000
99	99.0000	99.0000
100	100.0000	100.0000

HARVEY E. YATES COMPANY
CUMULATIVE PRODUCTION REPORT
FOR YOUNG DEEP UNIT

by RAY F. NOKES

WELL NAME:

CUM BO	CUM MCF	CUM BW
TO	TO	TO
1-Jan-83	1-Jan-83	1-Jan-83

CUM BO	CUM MCF	CUM BW
TO	TO	TO
1-Jan-83	1-Jan-83	1-Jan-83

ENTIRE YOUNG DEEP UNIT

PRESSURE MAINTENANCE AREA

YOUNG DEEP UNIT #1 W/V	282,659	144,088	158,740
YOUNG DEEP UNIT #2 W/V	109,066	91,396	985
YOUNG DEEP UNIT #5 W/V	83,657	86,236	276,190
YOUNG DEEP UNIT #6	263,671	229,676	1,059,258
YOUNG DEEP UNIT #7	245,550	191,417	656,509
YOUNG DEEP UNIT #8	65,865	64,873	27,695
YOUNG DEEP 4 FED #2	477,743	347,492	1,173,083
YOUNG DEEP 3 FED #1	364,353	317,983	297,127
YOUNG DEEP 3 FED #2	19,919	32,080	41,991
YOUNG DEEP 3 FED #3	42,303	49,322	13,112
YOUNG DEEP 3 FED #4	296,750	235,013	181,193
YOUNG DEEP 3 FED #4	6,508	7,546	0
YOUNG DEEP UNIT #4	1,158	1,299	90
YOUNG DEEP UNIT #4	30,918	39,445	0
YOUNG DEEP 3 FED #5	121,043	253,571	1,237
YOUNG DEEP UNIT #9	68,800	133,715	1,317
YOUNG DEEP UNIT #10	51,206	71,658	524
YOUNG DEEP 4 FED #1	108,454	150,902	0
YOUNG DEEP 4 FED #1	82	110	0
YOUNG DEEP 4 FED #3	78,392	125,919	0
YOUNG DEEP UNIT #11	243,347	220,350	5,425
YOUNG DEEP UNIT #13	91,436	82,471	5,625
YOUNG DEEP UNIT #14	68,341	74,353	1,046
YOUNG DEEP UNIT #15	40,531	40,193	3,868
YOUNG DEEP UNIT #16	35,212	46,258	1,894
YOUNG DEEP UNIT #17	197,746	230,947	529
YOUNG DEEP UNIT #22	66,206	76,121	2,332
YOUNG DEEP UNIT #23	17,212	13,659	6,847
CUMS OF UNIT PRODUCTION TO 1-1-83	3,401,130	3,362,099	3,356,603

202,659	144,088	158,740
109,066	91,396	985
83,657	86,236	276,190
263,671	229,676	1,059,258
245,550	191,417	656,509
65,865	64,873	27,695
477,743	347,492	1,173,083
364,353	317,983	297,127
19,919	32,080	41,991
42,303	49,322	13,112
296,750	235,013	181,193
1,158	1,299	90
121,043	253,571	1,237
68,800	133,715	1,317
51,206	71,658	524
108,454	150,902	0
82	110	0
78,392	125,919	0
243,347	220,350	5,425
91,436	82,471	5,625
68,341	74,353	1,046
40,531	40,193	3,868
35,212	46,258	1,894
197,746	230,947	529
66,206	76,121	2,332
17,212	13,659	6,847
3,401,130	3,362,099	3,356,603

YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
1980	1981	1982	1983	1984	1985	1988

YOUNG DEEP UNIT #1	17,740	72,774	65,751	41,548	4,846
CARBONATE (W/V)	19,514	42,673	48,614	29,138	4,149
4-84 conv	29,514	0	1,009	81,426	46,792
YOUNG DEEP UNIT #2		-141.15%	10.15%	45.90%	214.87%
CARBONATE (W/V)	670	68,570	38,826		
8-82 conv	1,209	60,373	29,814		
	0	0	985		
% DECUNE		-464.28%	50.32%		

YEAR	YEAR	YEAR	YEAR	YEAR	YEAR	YEAR
1980	1981	1982	1983	1984	1985	1988

2,299,819	2,044,562	3,927,196
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CARBONATE (W/W)
K-86 0000

YOUNG DEEP UNIT # 6
CARBONATE

YOUNG DEEP UNIT # 7
CARBONATE

YOUNG DEEP UNIT # 8
CARBONATE (SAND)

YOUNG DEEP 4 FED. M 2
CARBONATE

YOUNG DEEP 3 FEB. #1
CARBONATE

YOUNG DEEP 3 FED. M 2
CARBONATE

YOUNG DEEP 3 FEB. #3
CARBONATE

YOUNG DEEP 3 FEB. H 4
CARBONATE

YOUNG DEEP 3 FED. H 4
SAND

YOUNG DEEP UNIT # 4
CARBONATE

YOUNG DEEP UNIT # 4
SAND

YOUNG DEEP 3 FED. M 5
SHINGLE

WTR	20,833	23,168	19,637	3,739	4,100	0
GAS	21,853	27,831	22,643	8,520	4,777	232
WTR	0	0	6,004	123,886	141,822	4,478
% DECLINE		-33.37%	39.76%	63.82%	87.13%	
OIL	19,643	76,178	86,018	42,065	12,258	12,882
GAS	13,867	58,077	77,588	37,084	13,638	13,051
WTR	0	1,306	25,175	190,073	212,413	212,017
% DECLINE		-135.50%	-12.15%	71.53%	123.30%	-4.33%
OIL	18,333	67,516	78,382	38,870	12,984	10,288
GAS	14,286	52,281	54,250	29,634	13,082	10,483
WTR	0	1,628	8,833	132,855	141,800	73,676
% DECLINE		-130.63%	-14.33%	70.14%	109.65%	23.22%
OIL	1,702	15,563	10,814	12,471	5,851	11,704
GAS	1,295	17,765	10,428	9,506	8,899	10,254
WTR	0	1,973	2,147	3,521	10,500	6,351
% DECLINE		-221.35%	36.44%	-14.26%	75.68%	-69.32%
OIL	81,011	126,084	73,781	80,693	47,664	28,630
GAS	39,785	98,284	66,824	56,264	28,978	33,446
WTR	0	8,308	168,389	233,239	286,410	255,239
% DECLINE		-44.24%	53.58%	-8.83%	52.72%	18.25%
OIL	34,862	50,248	41,727	102,951	69,681	38,537
GAS	48,466	41,337	35,353	81,258	51,855	26,576
WTR	0	3,945	12,100	16,052	43,158	49,969
% DECLINE		-36.56%	18.58%	-90.31%	39.03%	59.08%
OIL	1,445	8,099	5,064	2,879	2,432	17,456
GAS	2,403	8,268	11,793	5,349	4,247	15,332
WTR	1,480	15,790	10,313	10,485	3,522	101,482
% DECLINE		-172.36%	46.96%	56.47%	16.87%	55.85%
OIL	7,276	5,261	10,745	5,975	5,172	4,950
GAS	6,239	6,367	9,478	6,776	9,908	6,119
WTR	978	1,034	1,846	3,995	274	1,503
% DECLINE		32.43%	-71.41%	58.69%	15.40%	3.42%
OIL	31,809	85,417	87,943	56,047	35,535	35,545
GAS	11,936	66,887	71,293	45,887	39,010	45,887
WTR	1,346	11,011	13,458	62,596	86,782	86,782
% DECLINE		-98.78%	-7.91%	45.05%	45.57%	
OIL	6,508					
GAS	7,546					
WTR	0					
% DECLINE						
OIL	443	63	519	127		
GAS	471	348	354	126		
WTR	27	50	13	0		
% DECLINE		196.39%	-210.88%	140.77%		
OIL	5,033	8,283	5,743	6,659	5,200	
GAS	4,590	9,498	5,562	11,577	8,218	
WTR	0	0	0	0	0	
% DECLINE		-49.82%	36.62%	-14.80%	24.73%	
OIL	23,691	40,841	15,416	14,747	26,848	
GAS	26,726	79,136	64,865	33,592	49,252	
WTR	0	130	0	615	492	
% DECLINE		-54.46%	97.43%	7.89%	-63.36%	

State of Michigan

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“*It is a very good idea to have a good idea of what you want to do, and then to have a good idea of how to do it.*”

100

1. *Chlorophyll a* (Chl *a*)

DATE	DESCRIPTION	AMOUNT	BALANCE
1954			
1-1	WASH	10.00	10.00
1-15	WASH	10.00	20.00
1-30	WASH	10.00	30.00
2-1	WASH	10.00	40.00
2-15	WASH	10.00	50.00
2-28	WASH	10.00	60.00
3-1	WASH	10.00	70.00
3-15	WASH	10.00	80.00
3-30	WASH	10.00	90.00
4-1	WASH	10.00	100.00
4-15	WASH	10.00	110.00
4-30	WASH	10.00	120.00
5-1	WASH	10.00	130.00
5-15	WASH	10.00	140.00
5-30	WASH	10.00	150.00
6-1	WASH	10.00	160.00
6-15	WASH	10.00	170.00
6-30	WASH	10.00	180.00
7-1	WASH	10.00	190.00
7-15	WASH	10.00	200.00
7-30	WASH	10.00	210.00
8-1	WASH	10.00	220.00
8-15	WASH	10.00	230.00
8-30	WASH	10.00	240.00
9-1	WASH	10.00	250.00
9-15	WASH	10.00	260.00
9-30	WASH	10.00	270.00
10-1	WASH	10.00	280.00
10-15	WASH	10.00	290.00
10-30	WASH	10.00	300.00
11-1	WASH	10.00	310.00
11-15	WASH	10.00	320.00
11-30	WASH	10.00	330.00
12-1	WASH	10.00	340.00
12-15	WASH	10.00	350.00
12-30	WASH	10.00	360.00
1955			
1-1	WASH	10.00	370.00
1-15	WASH	10.00	380.00
1-30	WASH	10.00	390.00
2-1	WASH	10.00	400.00
2-15	WASH	10.00	410.00
2-28	WASH	10.00	420.00
3-1	WASH	10.00	430.00
3-15	WASH	10.00	440.00
3-30	WASH	10.00	450.00
4-1	WASH	10.00	460.00
4-15	WASH	10.00	470.00
4-30	WASH	10.00	480.00
5-1	WASH	10.00	490.00
5-15	WASH	10.00	500.00
5-30	WASH	10.00	510.00
6-1	WASH	10.00	520.00
6-15	WASH	10.00	530.00
6-30	WASH	10.00	540.00
7-1	WASH	10.00	550.00
7-15	WASH	10.00	560.00
7-30	WASH	10.00	570.00
8-1	WASH	10.00	580.00
8-15	WASH	10.00	590.00
8-30	WASH	10.00	600.00
9-1	WASH	10.00	610.00
9-15	WASH	10.00	620.00
9-30	WASH	10.00	630.00
10-1	WASH	10.00	640.00
10-15	WASH	10.00	650.00
10-30	WASH	10.00	660.00
11-1	WASH	10.00	670.00
11-15	WASH	10.00	680.00
11-30	WASH	10.00	690.00
12-1	WASH	10.00	700.00
12-15	WASH	10.00	710.00
12-30	WASH	10.00	720.00
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1-1	WASH	10.00	730.00
1-15	WASH	10.00	740.00
1-30	WASH	10.00	750.00
2-1	WASH	10.00	760.00
2-15	WASH	10.00	770.00
2-28	WASH	10.00	780.00
3-1	WASH	10.00	790.00
3-15	WASH	10.00	800.00
3-30	WASH	10.00	810.00
4-1	WASH	10.00	820.00
4-15	WASH	10.00	

YOUNG DEEP UNIT # 10 SAND	OIL GAS WTR	11,253 14,990 0	21,186 36,073 449	15,906 36,902 526	11,287 28,090 0	9,168 17,658 342
YOUNG DEEP UNIT # 11 SAND	OIL GAS WTR	14,505 14,189 0	-63,27X 16,935 244	28,65X 12,831 109	34,30X 16,812 0	20,79X 10,851 171
YOUNG DEEP UNIT # 12 SAND	OIL GAS WTR	28,772 26,868 0	26,093 36,770 0	23,539 22,101 0	16,648 30,475 0	13,396 29,688 0
YOUNG DEEP UNIT # 13 SAND	OIL GAS WTR	82 110 0	9,75X 10,32X 34,64X	10,32X 34,64X 21,73X		
YOUNG DEEP UNIT # 14 SAND	OIL GAS WTR	12,327 9,993 0	31,063 48,141 0	20,170 39,179 0	14,832 32,606 0	
YOUNG DEEP UNIT # 15 SAND	OIL GAS WTR	24,454 16,065 786	85,423 43,453 485	62,319 44,766 741	46,324 63,544 1,549	30,827 53,022 1,864
YOUNG DEEP UNIT # 16 SAND	OIL GAS WTR	5,311 2,363 322	22,432 12,969 1,842	30,757 20,318 2,036	19,816 26,981 707	13,120 19,840 718
YOUNG DEEP UNIT # 17 SAND	OIL GAS WTR	1,232 69 70	21,207 15,929 976	18,310 16,201 0	15,854 21,431 0	11,738 18,723 0
YOUNG DEEP UNIT # 18 SAND	OIL GAS WTR	15,143 9,200 2,516	11,903 9,856 1,362	7,459 10,993 0	6,020 10,144 0	5,020 10,144 0
YOUNG DEEP UNIT # 19 SAND	OIL GAS WTR	11,855 13,962 1,813	10,700 12,498 81	7,370 10,667 0	5,287 9,101 0	5,287 9,101 0
YOUNG DEEP UNIT # 20 SAND	OIL GAS WTR	73,664 52,567 0	61,929 92,310 0	33,057 49,293 0	24,098 36,777 0	24,098 36,777 0
YOUNG DEEP UNIT # 21 SAND	OIL GAS WTR	22,621 18,378 2,076	17,997 21,512 21	11,878 20,502 235	7,710 15,729 0	7,710 15,729 0
YOUNG DEEP UNIT # 22 SAND	OIL GAS WTR	22,87X 41,55X 43,22X				
YOUNG DEEP UNIT # 23 SAND	OIL GAS WTR	17,712 13,653 6,847				

ENTIRE YOUNG DEEP PRODUCTION

YOUNG DEEP PRESSURE MAINTENANCE
AREA PRODUCTION

	1980	1981	1982	1983	1984	1985	1986	1987	1988
YEARLY OIL	17,740	133,860	342,932	368,405	317,944	562,550	472,253	332,462	271,011
YEARLY GAS	19,514	94,445	250,290	259,282	267,298	496,638	543,274	446,478	384,528
YEARLY WTR	29,514	27	6,944	132,939	671,374	780,101	611,843	714,385	711,364
DECLINE		-202.10X	-94.87X	-7.17X	14.73X	-57.08X	17.51X	35.10X	20.44X
YEARLY OIL	18,410	238,292	432,006	410,850	352,559	325,793	234,500	160,761	127,320
YEARLY GAS	20,723	203,284	321,351	334,525	288,744	309,596	247,803	164,836	153,590
YEARLY WTR	29,514	27	11,874	151,833	686,288	812,858	656,946	776,275	802,375
DECLINE		-256.06X	-59.49X	5.22X	16.83X	7.91X	32.88X	37.75X	23.32X



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

6775

GARREY CARRUTHERS
GOVERNOR

April 7, 1988

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88202-1933

Attention: Rosemary T. Avery

Re: Young Deep Unit
1988 Plan of Development and
Operation
Lea County, New Mexico

Gentlemen:

The above-referenced submittal has been approved by the New Mexico Oil Conservation Division effective this date. Such approval is contingent upon like approval by the New Mexico Commissioner of Public Lands and the Bureau of Land Management.

Sincerely,

A handwritten signature in dark ink, appearing to read "Roy E. Johnson", written over the word "Sincerely,".

ROY E. JOHNSON,
Senior Petroleum Geologist

REJ/dr

cc: Commissioner of Public Lands - Santa Fe
Bureau of Land Management - Albuquerque

HEYCO

HARVEY E. YATES COMPANY

PETROLEUM PRODUCERS

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

OK-4-4-88

March 30, 1988

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: William LeMay, Director

*P-
Unit 11100
11107*

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1988 Plan of Development and
Operation

Gentlemen:

Harvey E. Yates Company, as Unit Operator, timely submitted the Plan of Development and Operations for the Young Deep Unit to the Bureau of Land Management, pursuant to Section 10 of the unit agreement.

Enclosed for your information and files is a copy of said Plan of Development showing approval by the BLM.

If you find this plan to be in order, we shall appreciate your granting like approval for this POD. A similar letter has been sent to the attention of the Director of the Oil & Gas Division of the office of the Commissioner of Public Lands.

Yours very truly,

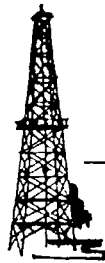
Rosemary Avery
Rosemary T. Avery
Project Landman

Enclosure

RTA/YDUPD880/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505 / 623-6601

FAX 505 / 622-4221

ROSWELL, NEW MEXICO 88202-1933

March 7, 1988

032388

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Assistant District Manager,
Minerals

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1988 Plan of Development and
Operation

Gentlemen:

Pursuant to Section 10 of the Young Deep Unit Agreement, Harvey E. Yates Company (HEYCO) hereby submits the enclosed 1988 Plan of Development and Operation.

Also enclosed is a current unit map showing all existing wells and their status, as prescribed by the letter dated February 17, 1988, from Joe G. Lara, Assistant District Manager, Minerals. Please note that the production data and decline curves were submitted separately to Mr. Les Babyak, at his request.

If this material is satisfactory, we will appreciate your approval of this Plan of Development/Operations. If there is anything further we are required to furnish, please let the undersigned know right away so that we can supply the missing data.

Very truly yours,

Rosemary Avery
Rosemary T. Avery
Project Landman

Enclosures

RTA/YDUPD882/LL

HEYCO

PETROLEUM PRODUCERS



HARVEY E. YATES COMPANY

P.O. BOX 1933

ONE SUNWEST CENTRE

505/623-6601

FAX 505/622-4221

ROSWELL, NEW MEXICO 88202-1933

March 8, 1988

Bureau of Land Management
Roswell District Office
P. O. Box 1397
Roswell, New Mexico 88202

Attention: Deputy Minerals Manager
for Oil and Gas

Re: Young Deep Unit
Contract #14-08-0001-18042
T-18S, R-32E, N.M.P.M.
Lea County, New Mexico
1988 Plan of Development and
Operation

Gentlemen:

Harvey E. Yates Company, as Unit Operator, submits this 1988 Plan of Development and Operation as prescribed by Section 10 of the Young Deep Unit Agreement.

1985 was the fifth anniversary of the Young Deep Unit. At that time, the outline of the Young Deep Unit contracted to the S/2 of Section 3, the S/2 of Section 4, all of Section 9 and all of Section 10, T-18S, R-32E, Lea County, New Mexico. This is the present configuration of the Young Deep Unit.

The pressure maintenance project, which began in 1982 in Sections 3 and 10, has continued with good success. Wells currently used for injection of water into the Bone Spring formation include the Young Deep Unit #2, 660' FNL and 1980' FWL of Section 10, the Young Deep Unit #1, 660' FNL and 660' FWL of Section 10 and the Young Deep Unit #5, 660' FNL and 1980' FEL of Section 10. Average injection rate is 1553 BWPD into the #1, 885 BWPD into the #2 and 585 BWPD into the #5 well. Cumulative injection into these three wells at the end of December, 1987, was 5,554,227 BW. December volume was 1,115,786 BBLS @ 1017 psi.

March 8, 1988
Bureau of Land Management
Re: Young Deep Unit

Page 2

Oil prices fluctuated during 1987, causing the petroleum industry to remain somewhat apprehensive. Even so, Harvey E. Yates Company drilled the Young Deep Unit #23, 2310' FSL and 1980' FEL of Section 9, T-18S, R-32E, in November. The Bone Spring "B" zone or 2nd carbonate reservoir was encountered in the well, however, bottom hole pressures were somewhat disappointing. The well had to be put on pump and was potentialed @ 123 BOPD + 135 MCFGPD + 18 BWPD in January, 1988. This is the same zone that the wells to the north produce from and the interval under pressure maintenance in Sections 3 and 10. The encouraging aspect of the Young Deep Unit #23 was the confirmation of the 2nd Bone Spring sand reservoir. Although still behind pipe, good sample shows with associated drilling breaks occurred while drilling the #23. Earlier mapping has suggested the 2nd Bone Spring sand reservoir extended to the south. With this new information the entire area is being reevaluated for both 1st and 2nd Bone Spring sand potential.

The Young Deep Unit #19, 330' FNL and 1980' FEL of Section 9, T-18S, R-32E, was drilled to a depth of 6,165' to evaluate the Delaware sand in September 1985. Subsequent testing of the well produced only traces of oil with water. The #19 well was finally plugged and abandoned in September 1987. We are still in the process of re-evaluating the Delaware sand for future reservoir potential.

The Young Deep Unit #8, 660' FNL and 860' FEL of Section 9, T-18S, R-32E, was originally drilled and completed in October 1985. Cores taken from the "B" zone (2nd) carbonate indicated the #8 was a reservoir edge well. Subsequent poor production confirmed this. After reevaluation of the 2nd Bone Spring sand reservoir, it was determined that the Young Deep Unit #8 would be an excellent well to try a horizontal drain hole type completion. Application for a horizontal drain hole pilot project was made to the NMOCD. The case was heard in September 1987, and approved in October 1987. The project was commenced in November with two horizontal holes drilled from the #8 well bore. Samples recovered while drilling yielded excellent oil stain, fluorescence and cut. Initial open-hole production with no acid wash and no treatment has been somewhat less than hoped for. The next step will be to try and acid wash the open holes. Abundant rock flour was generated while drilling and could have aided in plugging permeability. It is felt the acid wash would aid in removal of some of this rock flour. This was, and is, a pilot project. Each step taken will be fully evaluated before proceeding. The final evaluation and success, or lack thereof, will not be known for at least another year.

As the BLM is well aware, even though drilling activity increased in 1987 over 1986, it is still much suppressed over previous years. The posted price for oil on February 1, 1988, was still at the \$16.00 to \$16.50 level, significantly below a level sufficient to sustain any type of even a moderate drilling program. Harvey E. Yates Company, like so many other companies, is still operating at reduced levels. The Young Deep Unit is an area that still has excellent development potential, as evidenced by the #23 well drilled in 1987. Current

March 8, 1988
Bureau of Land Management
Re: Young Deep Unit

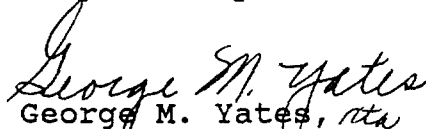
Page 3

plans include the continued evaluation of the Delaware sand potential and reevaluation of the 1st and 2nd Bone Spring sands. This should lead to additional locations in the S/2 of Sections 9 and 10. However, any new wells within the Young Deep Unit will probably be delayed pending final outcome of the Young Deep Unit #8 pilot project and a stabilized, slightly higher price for oil. At the present, HEYCO does not anticipate any additional wells within the Young Deep Unit until probably the first half of 1989.

Attached are schedules showing cumulative oil and gas production from the Bone Spring sand and carbonate for 1987. Also attached is a complete set of decline curves covering the entire production period of each well.

This summary is submitted for your review and approval of the effort Harvey E. Yates Company is putting forth to timely and prudently develop the Young Deep Unit and the North Young Bone Spring field.

Respectfully submitted,


George M. Yates, *etc*
President

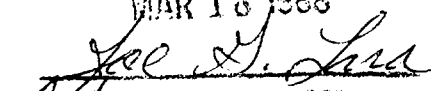
SMR/dlm

Enclosures

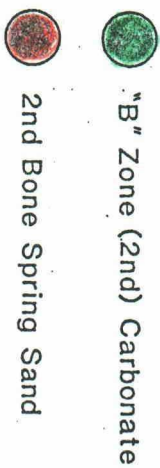
ydupod88/LL

Plan of Development
APPROVED

MAR 18 1988


J. L. Lora
DISTRICT MANAGER
BUREAU OF LAND MANAGEMENT

ST 18



FEB. 1988