

MARTIN YATES, III
1912 - 1985
FRANK W. YATES
1936 - 1986



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210
TELEPHONE (505) 748-1471

OIL CONSERVATION DIVISION
CHAIRMAN OF THE BOARD
JOHN A. YATES
PRESIDENT
PEYTON YATES
EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

July 28, 1992

State of New Mexico
OIL CONSERVATION DIVISION
P. O. Box 2088
Santa Fe, NM 87501
ATTN: Mr. David Catanach

Dear Mr. Catanach,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the following wells:

Paloma WW St. #1	F 3-14S-33E
Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 3-14S-33E
Dove VK St. #4	G 3-14S-33E
Dove VK St. #5	O 3-14S-33E

Should you have any questions, please feel free to contact me at (505) 748-1471 Ext. 182.
Thank you.

Sincerely,

Brian Collins
Engineer

BC/th

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TREASURER

July 28, 1992

State of New Mexico
OIL CONSERVATION DIVISION
P. O. Drawer 1980
Hobbs, NM 88240
ATTN: Mr. Jerry Sexton

Dear Mr. Sexton,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the following wells:

Paloma WW St. #1	F 3-14S-33E
Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 3-14S-33E
Dove VK St. #4	G 3-14S-33E
Dove VK St. #5	O 3-14S-33E

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July 28, 1992

Western Oil Producers, Inc.
P. O. Box 1498
Roswell, NM 88201

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 3-14S-33E
Dove VK St. #4	G 3-14S-33E
Dove VK St. #5	O 3-14S-33E

This copy of the application to commingle fulfills our requirement to notify offset operators per NMOCD Rule 303 D (10). Should you have any questions, please feel free to contact me at (505) 748-1471 Ext. 182. Thank you.

Sincerely,

Dina Huerta for Brian Collins

Brian Collins
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July 28, 1992

Mobil Exploration & Producing US, Inc.
P. O. Box 910513
Dallas, TX 75391-0513

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

Paloma WW St. #1	F 3-14S-33E
Dove VK St. #1	L 3-14S-33E
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Dove VK St. #4	G 3-14S-33E
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July 28, 1992

Tahoe Energy, Inc.
3909 West Industrial
Midland, TX 79703

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 3-14S-33E
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July 28, 1992

Amerada Hess Corporation
P. O. Box 840
Seminole, TX 79360

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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Dove VK St. #1	L 3-14S-33E
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July 28, 1992

Magna Oil Corporation
4100 Spring Valley Rd. Ste 904
Dallas, TX 75244

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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Dove VK St. #1	L 3-14S-33E
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Sincerely,

Una Huerta for Brian Collins

Brian Collins
Engineer

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July 28, 1992

Chevron USA, Inc.
P. O. Box 1150
Midland, TX 78702

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 3-14S-33E
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Dove VK St. #5	O 3-14S-33E

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July 28, 1992

Remo, Inc.
P. O. Box 2782
Odessa, TX 79760

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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July 28, 1992

Texaco USA
P. O. Box 2100
Denver, CO 8020

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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July 28, 1992

MWJ Production Company
413 1st National Bank Bldg.
Midland, TX 79702

Gentlemen,

Enclosed please find a copy of the application for downhole commingling of the following wells:

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July 28, 1992

M. F. Lawless
Bank of the Southwest
Odessa, TX 79760

Gentlemen,

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July 28, 1992

American Exploration
2100 NCNB Center
700 Louisiana
Houston, TX 77002

Gentlemen,

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Sincerely,

Vina Huerta for Brian Collins
Brian Collins
Engineer

BC/th

COMMINGLING DATA FOR THE DOVE VK STATE #3

1> Name and Address of the Operator:

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
ATTN: Brian Collins

2> Lease Name, Well Number, Well Location, Name of the Pools to be Commingled:

Dove VK State #3
Unit M Sec 3-T14S-R33E
660' FSL & 660' FWL
Pools: Lazy J Penn
Lazy J Wolfcamp

3> A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

See Attachment A (map)

4> A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone.

Penn

9781'-9923'

See attached monthly production history summary (Attachment B). Typical production was 25 BOPD.

Wolfcamp

9406'-9656'

See attached workover summary (Attachment C). Wolfcamp produced 14 BOPD on pump test.

5> A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed with in the case of a newly completed or recently completed well which has little or no production history. However, a complete description of treating testing, etc., of each zone, and a prognostication of future production from each zone shall be submitted.)

See Attachment C (workover history)

See Attachment B (Penn monthly production history)

Prognostication of Penn reserves derived by assuming an exponential decline rate of 19%/yr. (best engineering estimate).

$Q_i = 25 \text{ BOPD}$

$Q_{el} = 2 \text{ BOPD}$

DRILLING REPORT - WORKOVER

Page 1

Yates Petroleum - Dove "VK" State #3 (Unit M) 3-14S-33E Lea County, NM

4-3-92 Prep to move in and rig up pulling unit.
 4-4-92 Moved in and rigged up pulling unit. Nippled down wellhead. TOH with rods and pump. Installed BOP. Unset tubing anchor catcher. TOH with 2-7/8" tubing and tubing anchor catcher. Shut down. Prep to TIH with RBP, packer and 2-7/8" tubing. DC \$2867
 4-5-6-92 TIH with RBP, packer and 2-7/8" tubing. Set RBP at 9693'. Loaded hole with 2% KCL water. Set packer at 9684'. Tested annulus to 600# for 10 mins. Tested tubing to 2800# for 12 mins. Unset packer at 9684'. TOH with 2-7/8" tubing and packer. Shut down. Prep to perforate. DC \$4551; CC \$7418
 4-7-92 TIH with 4" casing guns and perforated 9652-9418' as follows: 9652', 55', 56', 9585', 86', 87', 9502', 03', 07', 08', 9406', 08', 16' and 18'. TOH with casing guns. TIH with packer and 2-7/8" tubing to 9684'. TIH with 1-11/16" GR tool and correlate RBP into place at 9697'. TOH with GR tool. Pulled up to 9664'. Spot 3 bbls 15% NEFE acid across perfs 9652-56'. Pulled up and set packer at 9598'. Start breakdown. Tubing split at 5200#. Unset packer and TOH with 2-7/8" tubing and packer. Found split at 5856'. TIH with packer and 2-7/8" tubing. Reverse hole clean with 2% KCL water and spot 3 bbls 28% NEFE acid across perfs 9652-56'. Pulled and set packer at 9598'. Acidized Zone #1 9652-56' with 500 gals 15% NEFE acid + 5 balls. Broke down 5000#. Pumped into perfs at 1 BPM at 5600#. With 5 bbls acid in formation, perfs went on vacuum. Put away remainder of acid at 4 BPM at 90#. ISDP vacuum. Unset packer at 9598'. Dropped down and unset RBP at 9697'. Pulled up and reset RBP at 9598' and tested to 1800# for 4 mins. Spot 3 bbls 28% NEFE acid across perfs 9585-87'. Pulled up and set packer at 9531'. Started acid breakdown - tubing split at 3800#. Unset packer and TOH with 2-7/8" tubing and packer. Prep to TIH with packer and tubing and acidize. DC \$6701; CC \$14,119
 4-8-92 Picked up string of 2-7/8" N-80 and TIH with packer and 2-7/8" N-80 to 9585'. Spot 5 bbls 28% NEFE acid across perfs 9587-9406'. Pulled up and set packer at 9358'. Acidized 9587'-9406' with 1000 gals 28% NEFE acid, 2000 gals 15% NEFE acid + 40 ball sealers. (NOTE: all acid contains 10 gals/1000 scale inhibitor). Broke down 4500# and went on vacuum. With 52 bbls acid in formation and 30 balls on perfs pressure came up to 4850# at 1 BPM. With 57 bbls in formation pressure broke back to vacuum. With 63 bbls acid in formation + 40 balls on perfs, balled out. Surge balls and put away remainder of acid in flush. Avg 3 BPM at 60#. ISDP on vacuum. Total load to recover 128 bbls. Unset packer at 9358'. Dropped down and reset packer at 9590'. Tested RBP to 2000#. (NOTE: RBP at 9597'). Unset packer and TOH. Laid down N-80 tubing. Shut down. Prep to run tubing assembly to hang on pump. DC \$10,688; CC \$24,807
 4-9-92 Turned over to production to hang well on pump.
 4-10-92 No report.
 4-11-92 Returned to production. FINAL REPORT.

4-22-92 14 BOPD 18 BWPD
 4-23-92 11 BOPD 21 BWPD
 4-24-92 14 BOPD 24 BWPD

$$d = 19\% / \text{yr.}$$

$$N_{\text{oil}} = \frac{365 (Q_{\text{el}} - Q_i)}{\ln(1-d)} = \frac{365 (2-2.5)}{\ln(1-.19)} = 39.839 \text{ BO}$$

Prognostication of Wolfcamp reserves derived by assuming an exponential decline rate of 50% / yr. for 2 years followed by a 19% / yr. decline (best engineering estimate).

$$Q_i = 14 \text{ BOPD}$$

$$Q, 2 \text{ yr.} = 3.5 \text{ BOPD} \quad Q, \text{ E. L.} = 2 \text{ BOPD}$$

$d = 50\% / \text{yr.}$ first 2 years followed by 19% / yr.

$$N = \frac{365 (3.5-14)}{\ln(1-.5)} + \frac{365 (2-3.5)}{\ln(1-.19)} = 8127 \text{ BO}$$

Best engineering estimate of gas reserves assumes same GOR for both Penn and Wolfcamp.

- 6> Estimated bottom-hole pressure for each artificially lifted zone. A current (within 30 days) measured bottom-hole pressure for each zone capable of flowing.

Estimated original BHP of Penn = 1864 psi at 9825' based on direct BHP measurement performed 11-6-83.

Current BHP in Penn is unknown.

Estimated BHP of Wolfcamp = 1808 psi at 9531' from pressure gradient of Bone Spring.

$$\frac{(1864 \text{ psi}) (9531 \text{ ft.})}{(9825 \text{ ft.})} = 1808 \text{ psi}$$

- 7> A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the well-bore.

Both zones produce sweet oil and gas. There are no incompatibility problems.

- 8> A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams.

Both zones produce sweet oil and gas. The value of the commingled production will not be less than the sum of the values of the individual streams.

- 9> A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula.

$$\text{Oil: Penn} - \frac{39.839 \text{ BO}}{47.966 \text{ BO}} = 83.06\%, \text{ say } 83\%$$

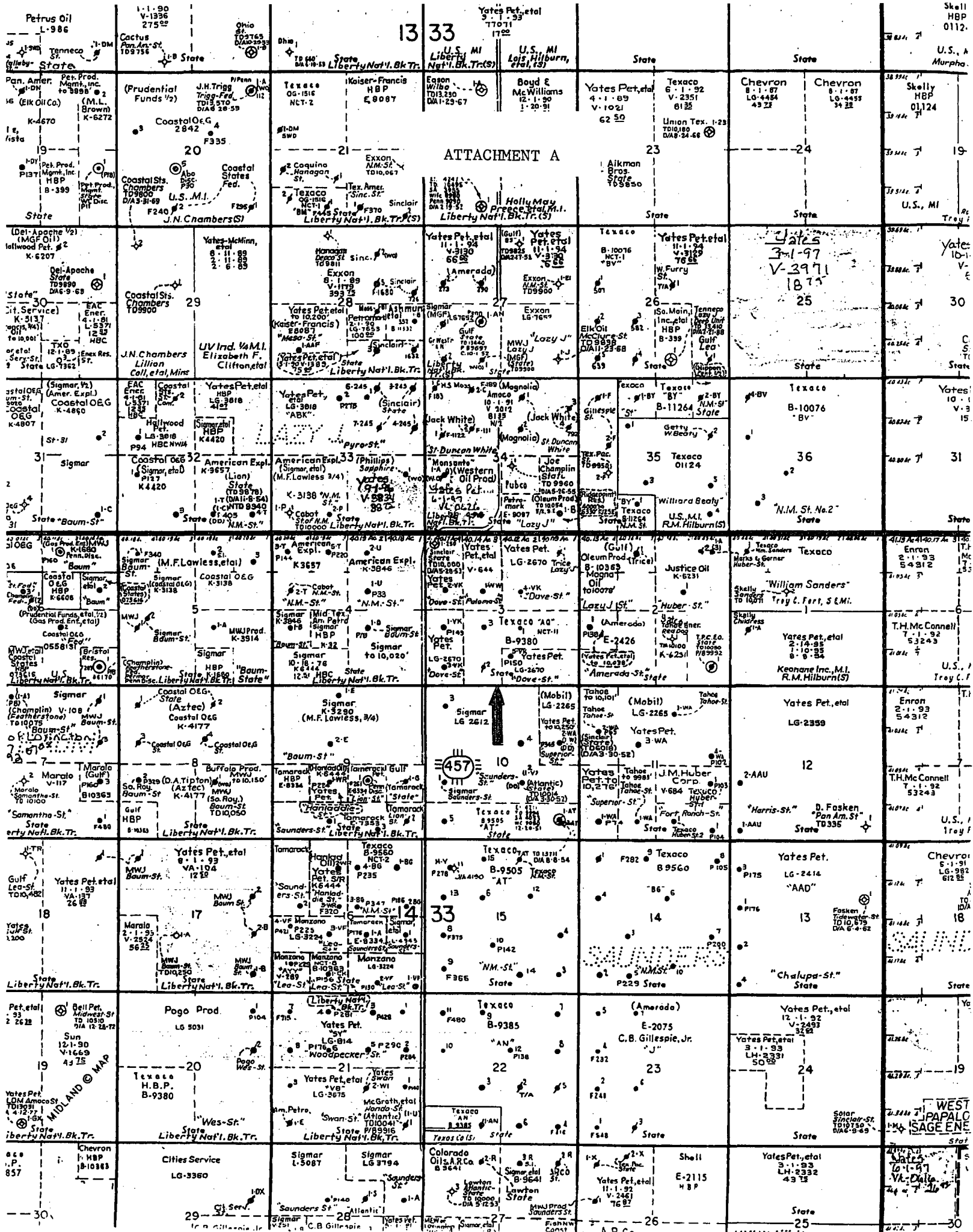
$$\text{Wolfcamp} - \frac{8127 \text{ BO}}{47.966 \text{ BO}} = 16.94\%, \text{ say } 17\%$$

$$\text{Gas: Penn} - 83\%$$

$$\text{Wolfcamp} - 17\%$$

10> A statement that all offset operators and, in the case of a well on federal land, the US BLM, have been notified in writing of the proposed commingling.

The offset operators for this area were notified of the proposed commingling of the Dove VK State #3.



Dwight's Energydata, Inc. DLOOK 4.20 Record # 6 Run date: 04/07/91
 : Property data from file: tulk.dmp Retrieval code: 150,025,14S33E03

Operator (#806779)	Lease name	Well #
YATES PETROLEUM CORP	DOVE VK STATE	000003

Ident. #	State	Dist	County	Location	Lse/tax /unit #
14S33E03M00PN	NM(30)	002	025 LEA	3M 14S 33E	69665

API #	Field (#8040674)	Reservoir
30-025-28150	LAZY J (PENN)	PN PENN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
10313	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	8312 9111	0	ACT

Cumulative gas MCF	Since	Gas Gravity	Gas Gatherer
327613	FP Date	0.00	WARRE

Cumulative liquid BBL	Since	Liquid Gravity	Liquid Gatherer
170740	FP Date	0.00	NAVAJ

ATTACHMENT B

Page 2

Dwight's Energydata, Inc. DLOOK 4.20 Record # 6 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14833E03
 Lease: DOVE VK STATE Well #: 000003

Month	Dil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
January	0	0	0	0	0	1
February	0	0	0	0	0	1
March	0	0	0	0	0	1
April	0	0	0	0	0	1
May	0	0	0	0	0	1
June	0	0	0	0	0	1
July	0	0	0	0	0	1
August	0	0	0	0	0	1
September	0	0	0	0	0	1
October	0	0	0	0	0	1
November	0	0	0	0	0	1
December	1573	1573	2369	2369	1979	1
Total 1983	1573	1573	2369	2369	1979	1
January	3273	4846	2966	5335	6257	1
February	3174	8020	3501	8836	5651	1
March	2760	10780	3232	12068	7111	1
April	2620	13400	2673	14741	4768	1
May	2493	15893	4367	19108	2394	1
June	2973	18866	5447	24555	2208	1
July	2571	21437	4735	29290	1861	1
August	2895	24332	4672	33962	1832	1
September	2439	26771	3891	37853	1615	1
October	2711	29482	4617	42470	1801	1
November	2608	32090	4399	46869	1511	1
December	2417	34507	3776	50645	1489	1
Total 1984	32934	34507	48276	50645	38498	1
January	2149	36656	2441	53086	1394	1
February	1899	38555	2025	55111	1190	1
March	1999	40554	2645	57756	1266	1
April	1657	42211	2301	60057	1161	1
May	2894	45105	4723	64780	1200	1
June	2530	47635	5222	70002	1148	1
July	2396	50031	4340	74342	1186	1
August	2243	52274	4814	79156	1186	1
September	2057	54331	3901	83057	1152	1
October	2560	56891	4123	87180	4960	1
November	2551	59442	3614	90794	3808	1
December	2836	62278	3780	94574	6423	1
Total 1985	27771	62278	43929	94574	26074	1
January	1633	63911	2798	97372	4545	1
February	1509	65420	2267	99639	3562	1
March	2918	68338	2419	102058	5576	1
April	2599	70937	2445	104503	5494	1
May	1618	72555	2477	106980	5729	1
June	2302	74857	3741	110721	2516	1
July	2240	77097	3765	114486	2316	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 6 Run date: 04/07/91
 : Production data from file: tulk.dmp Retrieval code: 150,025,14933E03
 Lease: DOVE VK STATE Well #: 000003

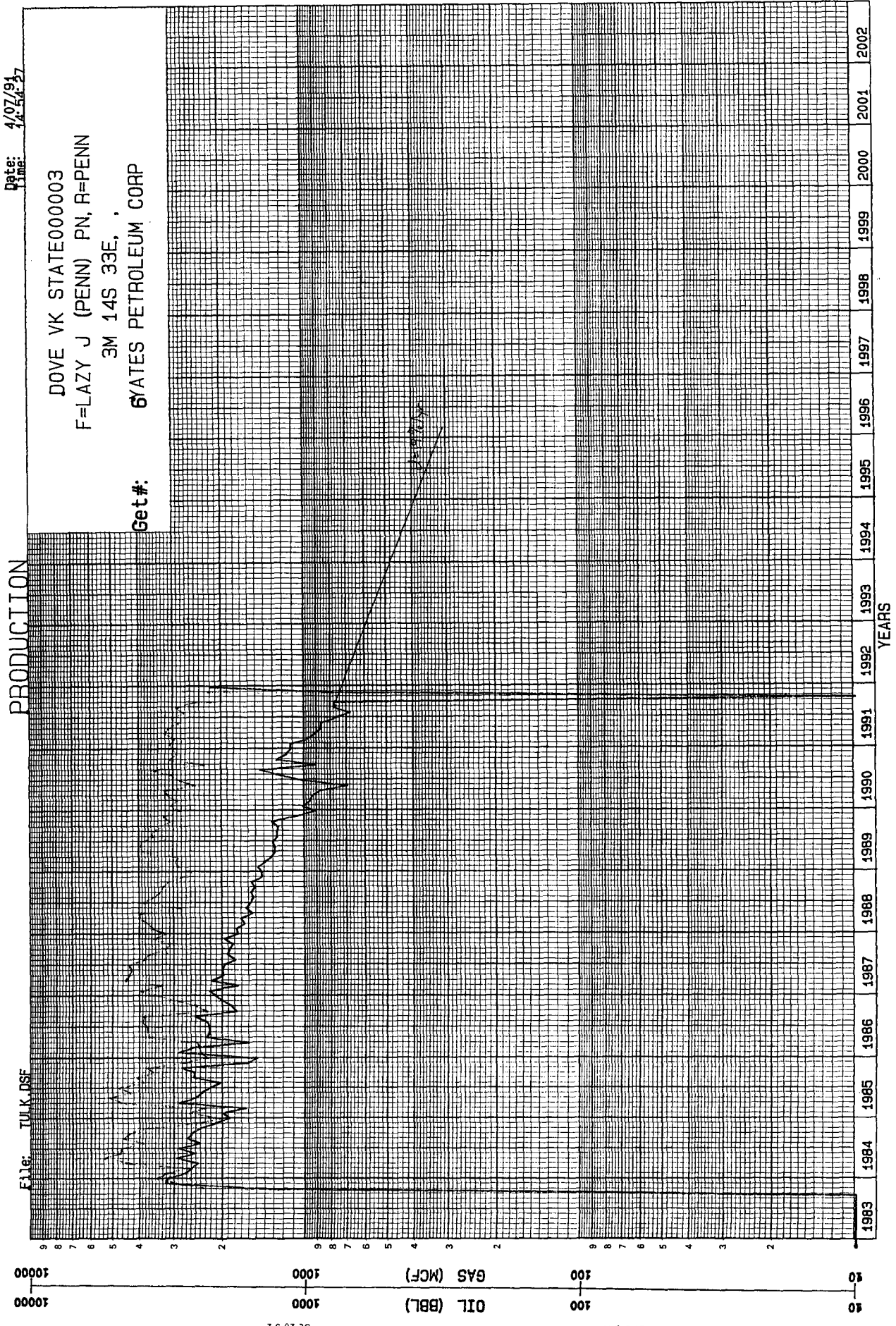
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
August	2251	79348	3790	118276	2045	1
September	2299	81647	3946	122222	2100	1
October	2544	84191	3899	126121	2730	1
November	1800	85991	2284	128405	1959	1
December	1871	87862	2503	130908	2268	1
Total 1986	25584	87862	36334	130908	40840	1
January	2012	89874	2888	133796	2796	1
February	2129	92003	3407	137203	3715	1
March	2247	94250	4031	141234	3221	1
April	1782	96032	3339	144573	2312	1
May	2215	98247	4567	149140	2362	1
June	2006	100253	4407	153547	2267	1
July	2019	102272	4316	157863	2146	1
August	1993	104265	4424	162287	2050	1
September	1820	106085	3888	166175	1973	1
October	1940	108025	3746	169921	1442	1
November	1905	109930	3255	173176	2196	1
December	1850	111780	3123	176299	2291	1
Total 1987	23918	111780	45391	176299	28771	1
January	1983	113763	3582	179881	2291	1
February	1782	115545	3232	183113	2061	1
March	1788	117333	3611	186724	1857	1
April	1679	119012	3754	190478	1907	1
May	1726	120738	4070	194548	1906	1
June	1567	122305	3997	198545	1809	1
July	1653	123958	2842	201387	1753	1
August	1600	125558	3918	205305	1977	1
September	1561	127119	3632	208937	1901	1
October	1586	128705	3407	212344	2450	1
November	1535	130240	3315	215659	1881	1
December	1582	131822	3172	218831	1798	1
Total 1988	20042	131822	42532	218831	23591	1
January	1454	133276	2840	221671	1715	1
February	1450	134726	2594	224265	1840	1
March	1501	136227	2913	227178	1696	1
April	1418	137645	2984	230162	1581	1
May	1339	138984	2916	233078	1616	1
June	1295	140279	3890	236968	1676	1
July	1301	141580	4021	240989	1769	1
August	1316	142896	3933	244922	1850	1
September	1276	144172	3609	248531	1915	1
October	1275	145447	3616	252147	1631	1
November	1256	146703	3366	255513	1448	1
December	1334	148037	3107	258620	1477	1
Total 1989	16215	148037	39789	258620	20214	1

ATTACHMENT B

Page 4

Dwight's Energydata, Inc. DL00K 4.20 Record # 6 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14S33E031
 Lease: DOVE VK STATE Well #: 000003

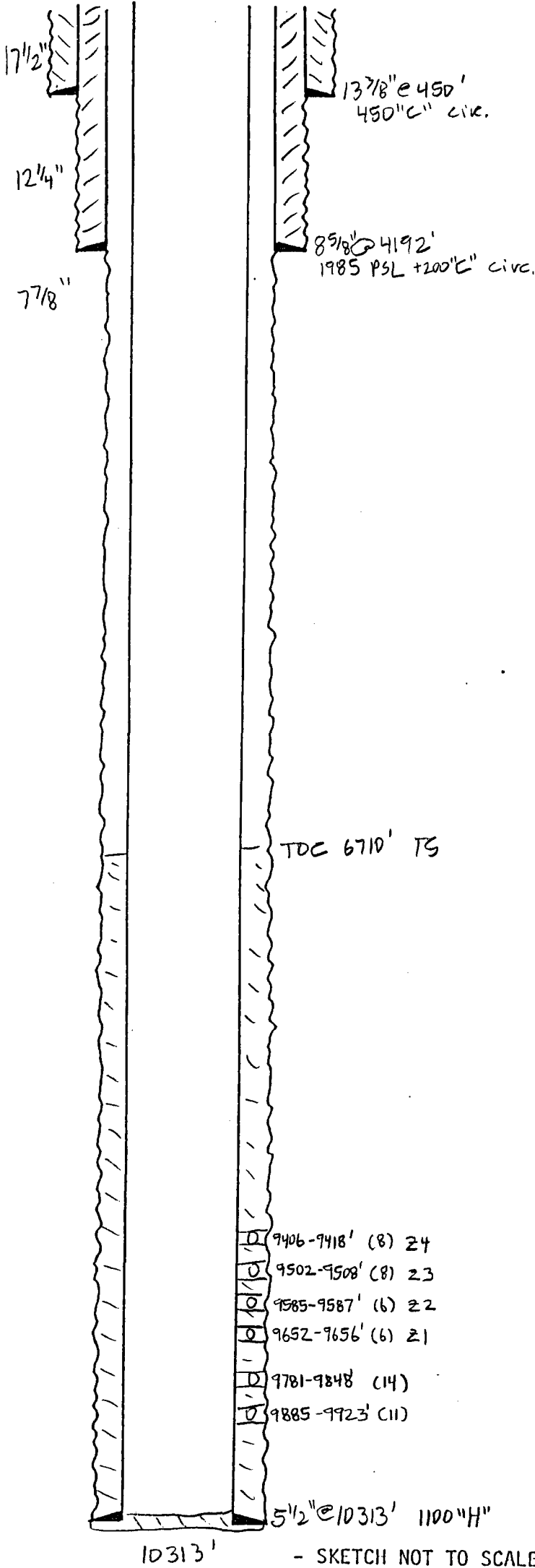
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	1096	149133	3300	261920	1384	1
February	926	150059	2848	264768	1114	1
March	1029	151088	3107	267875	1233	1
April	963	152051	2936	270811	1065	1
May	947	152998	3158	273969	1064	1
June	887	153885	3282	277251	931	1
July	706	154591	2528	279779	773	1
August	1031	155622	2870	282649	1237	1
September	1241	156863	3088	285737	3488	1
October	1473	158336	3597	289334	5231	1
November	928	159264	2333	291667	1889	1
December	1283	160547	3142	294809	2446	1
Total 1990	12510	160547	36189	294809	21855	1
January	1175	161722	2950	297759	1471	1
February	1144	162866	3028	300787	2950	1
March	1142	164008	3140	303927	1860	1
April	985	164993	3000	306927	1106	1
May	926	165919	3260	310187	1095	1
June	883	166802	3170	313357	967	1
July	882	167684	2890	316247	1058	1
August	790	168474	3076	319323	772	1
September	691	169165	2764	322087	849	1
October	786	169951	2964	325051	1123	1
November	789	170740	2562	327613	1045	1
Total 1991	10193	170740	32804	327613	14296	1



WELL NAME: Dove VK St. 3 FIELD AREA: Lazy J
 LOCATION: 660' FSL, 660' FWL, M-3-145-33c Lea NM
 GL: 4228.1' ZERO: 17' AGL:
 KB: 4245.1' ORIG. DRLG./COMPL. DATE:
 COMMENTS:

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 ³ / ₈ 54.5 J55 STC	450'
8 ⁵ / ₈ 32	4192'
5 ¹ / ₂ 17 N80 LTC	1635'
17 K55 LTC	8212'
17 N80 LTC	10313'
2 ⁷ / ₈ "	



Proposed Schematic

REVISED: Brian Collins 2-21-92



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
RECEIVED OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

'92 AUG 9 AM 9 30

8-6-92

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC _____
DHC X _____
NSL _____
NSP _____
SWD _____
WFX _____
PMX _____

Gentlemen:

I have examined the application for the:

Yates Petroleum Corp.
Operator

Lease & Well No. Unit S-T-R

Paloma WW St #1-F 3-14-33
Dove VK St #1-L 3-14-33
Dove VK St #3-M 3-14-33
Dove VK St. #4-G 3-14-33
Dove VK St #5-O 3-14-33

and my recommendations are as follows:

OK

Yours very truly,

Gerry Sexton
Gerry Sexton
Supervisor, District 1

/ed