

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



OIL CONSERVATION DIVISION
RECEIVED

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CHAIRMAN OF THE BOARD
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EXECUTIVE VICE PRESIDENT
RANDY G. PATTERSON
SECRETARY
DENNIS G. KINSEY
TREASURER

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

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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TREASURER

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:

Paloma WW St. #1	F 3-14S-33E
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

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,

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Engineer

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TREASURER

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
Dove VK St. #3	M 3-14S-33E
Dove VK St. #4	G 3-14S-33E
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TREASURER

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:

Paloma WW St. #1	F 3-14S-33E
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:

Paloma WW St. #1	F 3-14S-33E
Dove VK St. #1	L 3-14S-33E
Dove VK St. #3	M 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:

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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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
Dove VK St. #4	G 3-14S-33E
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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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

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

July 28, 1992

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

Gentlemen,

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

July 28, 1992

American Exploration
2100 NCNB Center
700 Louisiana
Houston, TX 77002

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

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Sincerely,

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Brian Collins
Engineer

BC/th

COMMINGLING DATA FOR THE DOVE VK STATE #4

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 #4
Unit G Sec 3-T14S-R33E
1980' FNL & 1980' FEL
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)

Current Comm. Prod. 31 BOPD 0 BOPD

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

9831'-9973'

See attached monthly production history summary (Attachment B). Typical production was 6 BOPD.

Wolfcamp

9383'-9616'

See attached workover summary (Attachment C). Wolfcamp pump tested 202 BOPD.

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 38%/yr. (best engineering estimate).

$Q_i = 6 \text{ BOPD}$

$$Q_{el} = 1 \text{ BOPD}$$

$$d = 38\% / \text{yr.}$$

$$N_{\text{oil}} = \frac{365 (Q_{el} - Q_i)}{\ln(1-d)} = \frac{365 (1-6)}{\ln(1-.38)} = 3818 \text{ BO}$$

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).

$$Q_i = 202 \text{ BOPD}$$

$$Q, 2 \text{ yr.} = 50 \text{ BOPD} \quad Q, \text{ E. L.} = 2 \text{ BOPD}$$

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

$$N = \frac{365 (50-202)}{\ln(1-.5)} + \frac{365 (2-50)}{\ln(1-.19)} = 163,184 \text{ BO}$$

Best engineering estimate of gas production assumes GOR the same 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.

Did not measure original BHP in Penn. A reasonable estimate of original Penn BHP is 1573 psi at 9900' based on Paloma WW St. #1 pressure gradient. Current BHP in Penn is unknown.

Estimated BHP of Wolfcamp = 1509 psi at 9500' from pressure gradient of Penn.

$$\frac{(1573 \text{ psi}) (9500 \text{ ft.})}{(9900 \text{ ft.})} = 1509 \text{ psi}$$

- 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.

$$\text{Oil: Penn} - \frac{3,818 \text{ BO}}{167,002 \text{ BO}} = 2.29\%, \text{ say } 2\%$$

$$\text{Wolfcamp} - \frac{163,184 \text{ BO}}{167,002 \text{ BO}} = 97.71\%, \text{ say } 98\%$$

$$\text{Gas: Penn} - 2\%$$

$$\text{Wolfcamp} - 98\%$$

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 #4.

<p>Petrus Oil L-986</p> <p>Tenneco State</p> <p>Pan. Amer. (EIK Oil Co.) K-4670</p> <p>Coastal OEG 2842</p> <p>Coastal States Fed. F335</p> <p>Coastal States Chambers T0980</p> <p>State</p>	<p>Ohio State</p> <p>Prudential Funds (2) J.H. Trigg</p> <p>Coastal OEG 2842</p> <p>U.S.M.I. J.N. Chambers(S)</p> <p>State</p>	<p>13 33</p> <p>U.S. MI Liberty Nat'l. Bk. Tr.</p> <p>Kaiser-Francis HBP E.9087</p> <p>Exxon</p> <p>Texaco</p> <p>State</p>	<p>U.S. MI Lois Hilburn, et al. (S)</p> <p>Yates Pet. et al. Boud E McWilliams</p> <p>Yates Pet. et al. 4-1-89</p> <p>State</p>	<p>U.S. MI</p> <p>Yates Pet. et al. 6-1-92</p> <p>Texaco</p> <p>State</p>	<p>Yates Pet. et al. 8-1-87</p> <p>Chevron</p> <p>State</p>	<p>U.S. A Murpho.</p> <p>Skelly HBP 01124</p> <p>State</p>
ATTACHMENT A						
<p>Del. Apache HBP K-6207</p> <p>State</p>	<p>Yates-McMinn</p> <p>Coastal States Chambers T09900</p> <p>J.N. Chambers Lillian Call, et al. Mine</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>
<p>Coastal OEG K-4807</p> <p>Sigmar</p> <p>State</p>	<p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>
<p>Coastal OEG K-4807</p> <p>State</p>	<p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>
<p>Coastal OEG K-4807</p> <p>State</p>	<p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>Coastal OEG K-4807</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>	<p>Yates Pet. et al. (Amerada)</p> <p>Yates Pet. et al. (Kaiser-Francis)</p> <p>Yates Pet. et al. (M.F. Lawless)</p> <p>State</p>
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Dwight's Energydata, Inc. DLOOK 4.20 Record # 4 Run date: 04/07/91
 Property data from file: tulk.dmp Retrieval code: 150,025,14S33E03

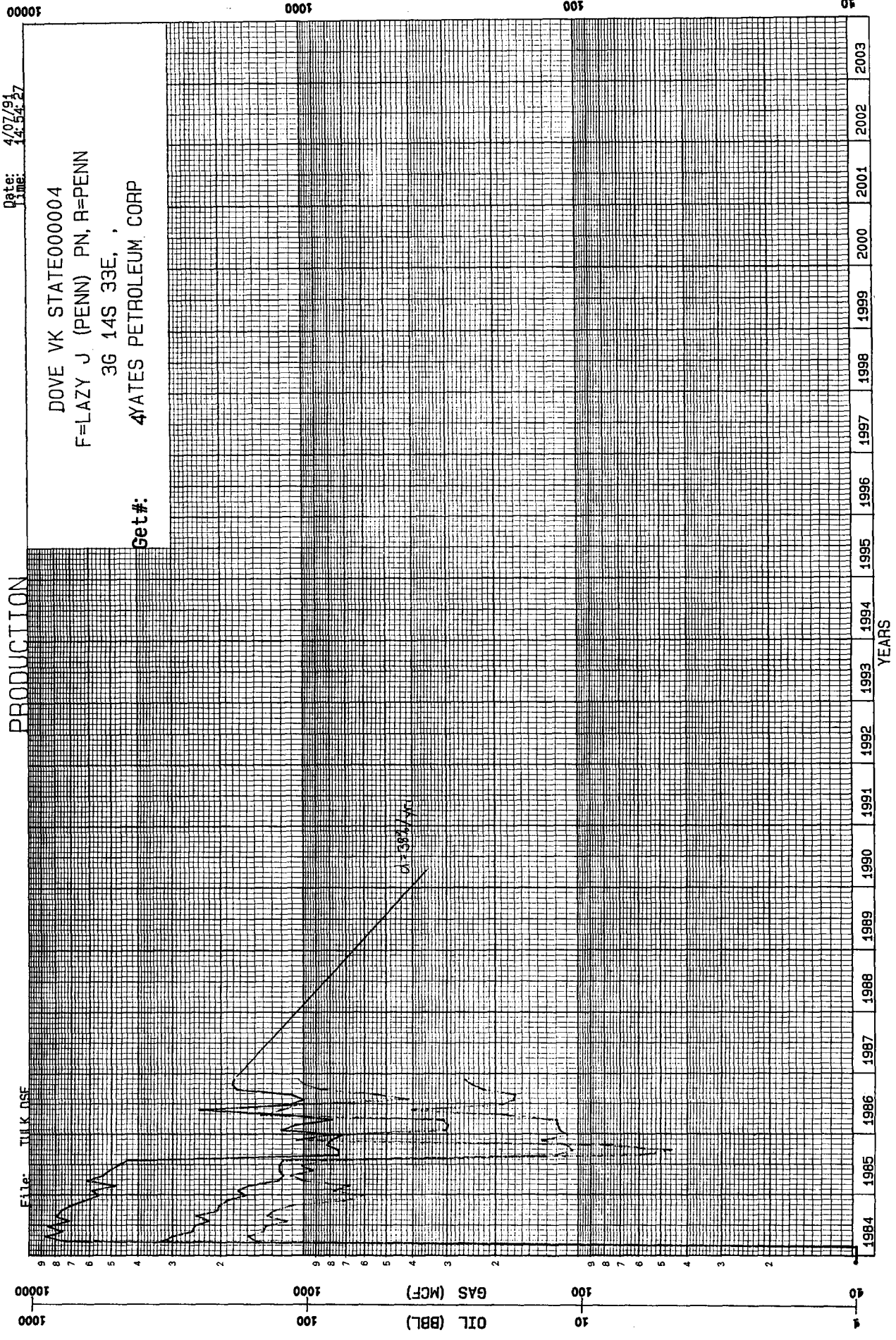
Operator (#806779)		Lease name		Well #		
YATES PETROLEUM CORP		DOVE VK STATE		000004		
Ident. #	State	Dist	County	Location		Lse/tax /unit #
14S33E03G00PN	NM(30)	002	025 LEA	3G	14S 33E	69665
API #	Field (#8040674)			Reservoir		
30-025-28564	LAZY J (PENN)			PN	PENN	
Total Depth	Perforations Upper Lower		Temp Gradient	N-Factor	GDR	
0	0	0	0.000	0.000	0	
Comp Date	Production Dates First Last		Status Date	Status		
0	8405	8701	0	INA		
Cumulative gas MCF	Since	Gas Gravity	Gas Gatherer			
21842	FP Date	0.00	WARRE			
Cumulative liquid BBL	Since	Liquid Gravity	Liquid Gatherer			
13361	FP Date	0.00	TEXNM			

ATTACHMENT B

Page 2

Dwight's Energydata, Inc. DL00K 4.20 Record # 4 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14S33E031
 Lease: DOVE VK STATE Well #: 000004

Month	Oil 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	756	756	1512	1512	3360	1
June	901	1657	1651	3163	3098	1
July	780	2437	1435	4598	2611	1
August	879	3316	1416	6014	2570	1
September	739	4055	1179	7193	2266	1
October	822	4877	1399	8592	2526	1
November	790	5667	1333	9925	2119	1
December	733	6400	1145	11070	2089	1
Total 1984	6400	6400	11070	11070	20639	1
January	652	7052	740	11810	1957	1
February	576	7628	617	12427	1670	1
March	606	8234	804	13231	1775	1
April	502	8736	700	13931	1629	1
May	636	9372	1038	14969	1271	1
June	556	9928	1148	16117	1215	1
July	527	10455	954	17071	1256	1
August	493	10948	1058	18129	1256	1
September	452	11400	857	18986	1220	1
October	77	11477	123	19109	61	1
November	77	11554	108	19217	47	1
December	85	11639	113	19330	80	1
Total 1985	5239	11639	8260	19330	13437	1
January	82	11721	140	19470	1085	1
February	75	11796	113	19583	850	1
March	124	11920	120	19703	310	1
April	110	12030	122	19825	305	1
May	81	12111	123	19948	318	1
June	118	12229	191	20139	1468	1
July	248	12477	417	20556	1235	1
August	115	12592	194	20750	1090	1
September	103	12695	176	20926	426	1
October	114	12809	174	21100	554	1
November	180	12989	227	21327	881	1
December	187	13176	250	21577	1020	1
Total 1986	1537	13176	2247	21577	9542	1
January	185	13361	265	21842	1073	1
Total 1987	185	13361	265	21842	1073	1



Yates Petroleum - Dove "VK" State #4 (Unit G) 3-14S-33E Lea County,
 *****New Mexico*****

2-14-92 Moved in and rigged up pulling unit. TOH with rods and pump. Installed BOP. TOH with 2-7/8" tubing. Shut down. Prep to perforate. DC \$3152

2-15-92 TIH with 4" casing guns and perforated 9614-9387' with 34 holes (2 SPF) as follows: 9614', 15', 16', 9585', 86', 87', 9477', 78', 79', 9428', 29', 30', 9383', 84', 85', 86', and 9387'. TIH with RBP, packer and 2-7/8" tubing. Set RBP at 9707'. Tested RBP to 2000# for 5 mins. Set packer at 9319'. Acidized perfs 9383-9616' with 3000 gals 15% HCL NEFE acid + 100 ball sealers. Broke down 4400#. Avg 3400# at 7.8 BPM. Good ball action. ISDP 200#, 1 min vacuum. Rigged up and swabbed as follows:

TIME	FL	WATER	OIL	GAS
5:00-6:00 PM	2800'	22	0	0

NOTE: Total load to recover 176 bbls watr. Total recovered 22 bbls water. Load left to recover 154 bbls water. Shut down. DC \$8455; CC \$11,607

2-16-92 Overnight SIP 0 psi - on vacuum. Unset packer at 9319'. TOH with 2-7/8" tubing and packer. (NOTE: RBP still set at 9707'). Turned over to production to run pump and rods. DC \$1224; CC \$12,831

2-17-92 Pumped 132 bbls oil and 68 bbls water in 16 hours.

2-18-92 Pumped 220 bbls oil and 54 bbls water.

2-19-92 Pumped 245, 21 bbls water and 679 MCF.

2-20-92 Pumped 234 bbls oil, 21 bbls water and 639 MCF.

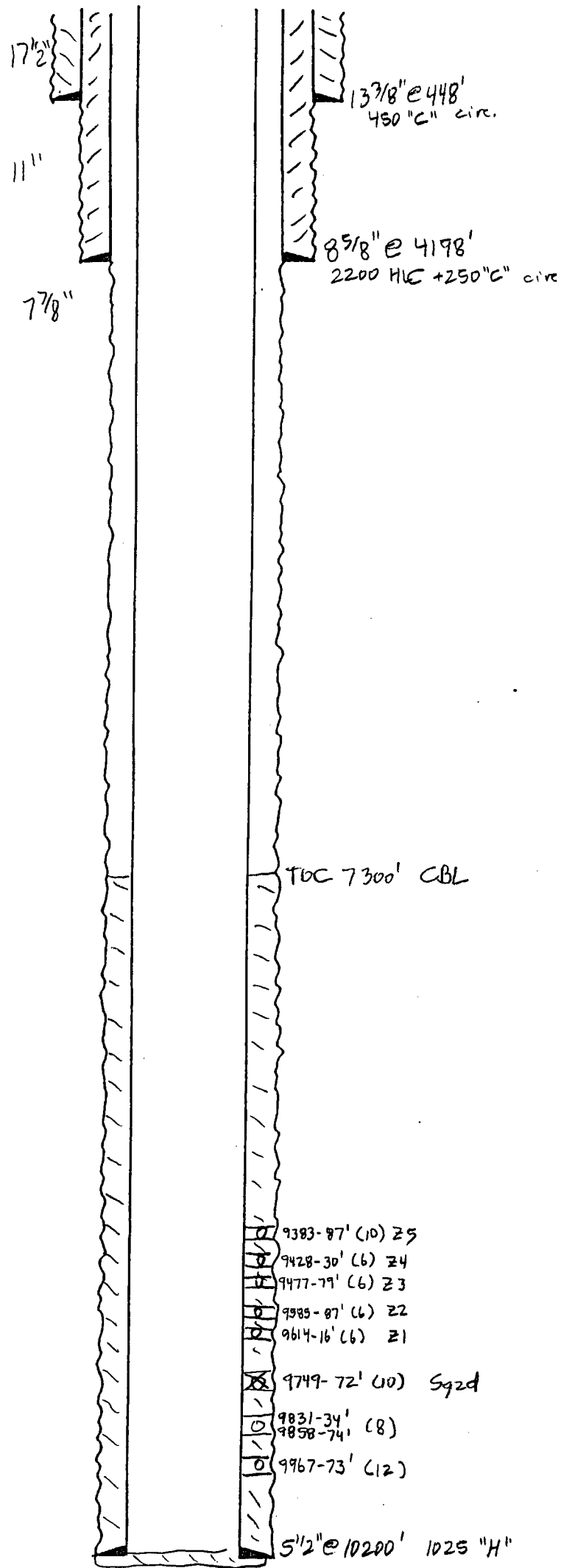
2-21-92 Pumped 202 bbls oil, 24 bbls water and 559 MCF.

2-22-92 Returned to production. FINAL REPORT.

WELL NAME: Dove VK St. #4 FIELD AREA: Lazy J
 LOCATION: 1980' FNL, 1980' FEL - G-3-14s-33c Lea, NM
 GL: 4215.5' ZERO: 15' AGL: _____
 KB: 4230.5' ORIG. DRLG./COMPL. DATE: _____
 COMMENTS: _____

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 7/8" 54.5 J55 STC	448'
8 7/8" 32 J55	4198'
5 1/2" 17 N80 LTC	2040'
17 J55 LTC	8212'
17 N80 LTC	10200'
2 7/8"	



Proposed Schematic

10200' - SKETCH NOT TO SCALE-

REVISED: Brian Collins 2-11-92



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

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

Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Jerry Sexton
Supervisor, District 1

/ed