

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
RECEIVED
'92 AUG 3 10 10 AM '92
JOHN A. YATES
CHAIRMAN OF THE BOARD
PRESIDENT
PERTON 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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DENNIS G. KINSEY
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:

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

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:

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Dove VK St. #1	L 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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Engineer

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

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July 28, 1992

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

Gentlemen,

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July 28, 1992

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

Gentlemen,

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July 28, 1992

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

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July 28, 1992

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

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July 28, 1992

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

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American Exploration
2100 NCNB Center
700 Louisiana
Houston, TX 77002

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Vina Huerta for Brian Collins
Brian Collins
Engineer

BC/th

COMMINGLING DATA FOR THE DOVE VK STATE #1

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 #1
Unit 1 Sec 3-T14S-R33E
1980' 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

9791'-10000'

See attached monthly production history summary (Attachment B). Typical production is 7 BOPD.

Wolfcamp

9322'-9693'

See attached workover summary (Attachment C). Wolfcamp pump tested 6 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 19%/yr. (best engineering estimate).

$Q_i = 7 \text{ BOPD}$

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

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

$$N_{\text{oil}} = \frac{365 (Q_{\text{el}} - Q_i)}{\ln(1-d)} = \frac{365 (2-7)}{\ln(1-.19)} = 8661 \text{ BO}$$

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

$$Q_i = 6 \text{ BOPD}$$

$$Q, 2 \text{ yr.} = 1.5 \text{ BOPD}$$

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

$$N = \frac{365 (1.5-6)}{\ln(1-.5)} = 2370 \text{ BO}$$

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 = 2256 psi at 9863' based on direct BHP measurement performed 12-23-82. Current BHP in Penn is unknown.

Estimated BHP of Wolfcamp = 2175 psi at 9507' from pressure gradient of Penn.

$$\frac{(2256 \text{ psi})}{(9863 \text{ ft.})} (9507 \text{ ft.}) = 2175 \text{ psi}$$

- 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.

$$\text{Oil: } \frac{\text{Penn} - 8661 \text{ BO}}{11,031 \text{ BO}} = 78.52\%, \text{ say } 79\%$$

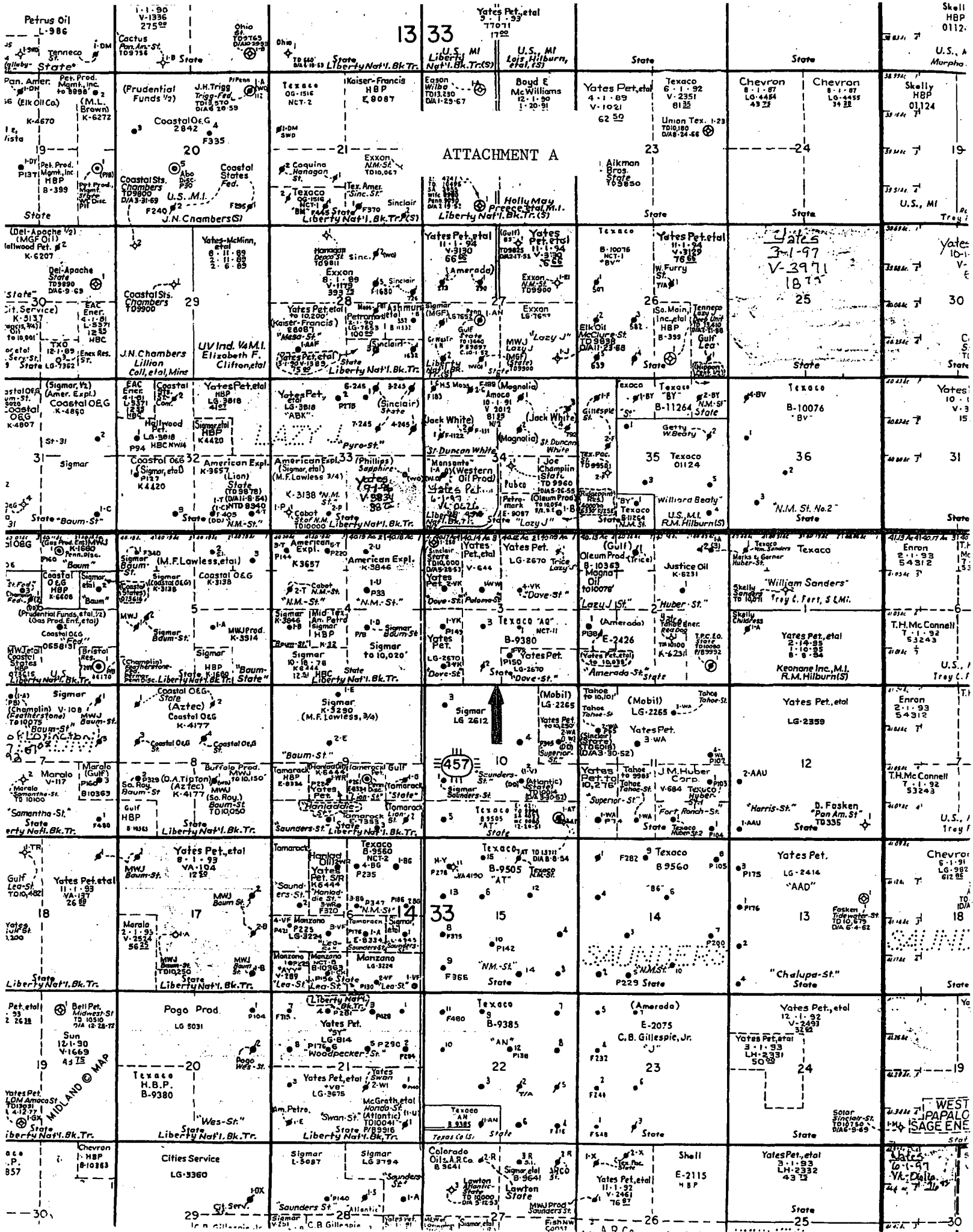
$$\frac{\text{Wolfcamp} - 2370 \text{ BO}}{11,031 \text{ BO}} = 21.48\%, \text{ say } 21\%$$

$$\text{Gas: } \text{Penn} - 79\%$$

$$\text{Wolfcamp} - 21\%$$

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 #1.



Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 04/07/91
 Property data from file: tulk.dmp Retrieval code: 150,025,14533E03

Operator (#806779)	Lease name	Well #
YATES PETROLEUM CORP	DOVE VK STATE	000001

Ident. #	State	Dist	County	Location	Lse/tax /unit #
14533E03L00PN	NM(30)	002	025 LEA	3L 14S 33E	69665

API #	Field (#8040674)	Reservoir
30-025-27993	LAZY J (PENN)	PN PENN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GOR
10277	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	8302 9111	0	ACT

Cumulative gas MCF Since	Gas Gravity	Gas Gatherer
105965 FP Date	0.00	WARRE

Cumulative liquid BBL Since	Liquid Gravity	Liquid Gatherer
68359 FP Date	0.00	NAVAJ

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14533E03
 Lease: DOVE VK STATE Well #: 000001

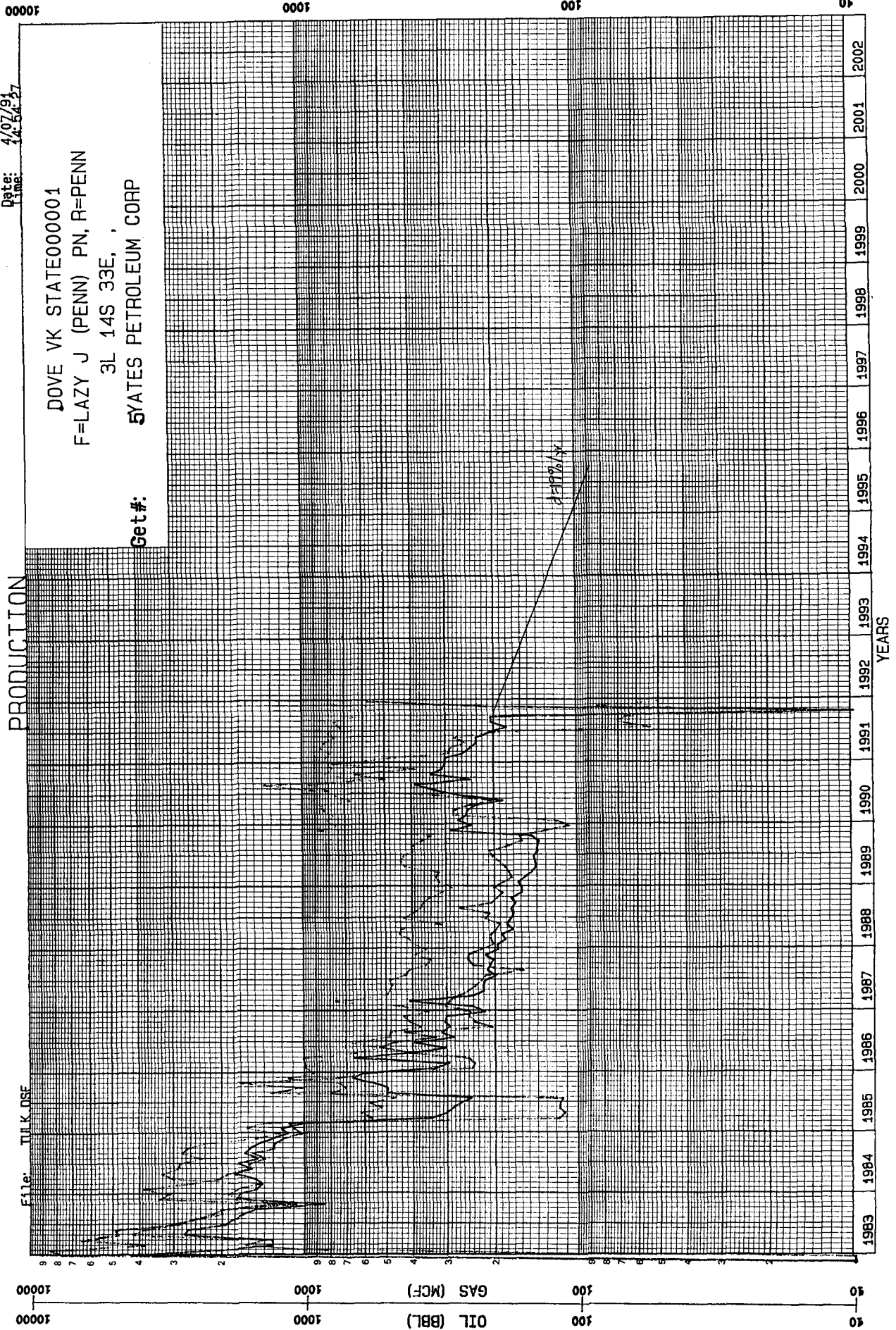
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	0	0	0	0	0	1
February	4369	4369	0	0	7817	1
March	2085	6454	848	848	8655	1
April	1342	7796	1684	2532	3875	1
May	1337	9133	1422	3954	6620	1
June	2806	11939	4307	8261	4866	1
July	2729	14668	3977	12238	5028	1
August	1985	16653	2942	15180	3073	1
September	1876	18529	2552	17732	2606	1
October	1714	20243	2050	19782	2214	1
November	1552	21795	2067	21849	2051	1
December	874	22669	1316	23165	1097	1
Total 1983	22669	22669	23165	23165	47902	1
January	1819	24488	1646	24811	3479	1
February	1764	26252	1944	26755	3142	1
March	1533	27785	1795	28550	3955	1
April	1456	29241	1484	30034	2651	1
May	1550	30791	3100	33134	2100	1
June	1849	32640	3388	36522	1936	1
July	1599	34239	2945	39467	1632	1
August	1800	36039	2905	42372	1606	1
September	1516	37555	2420	44792	1416	1
October	1686	39241	2872	47664	1578	1
November	1622	40863	2736	50400	1324	1
December	1502	42365	2348	52748	1306	1
Total 1984	19696	42365	29583	52748	26125	1
January	1336	43701	1518	54266	1223	1
February	1181	44882	1259	55525	1044	1
March	1243	46125	1645	57170	1110	1
April	1031	47156	1431	58601	1164	1
May	352	47508	575	59176	120	1
June	308	47816	637	59813	114	1
July	292	48108	530	60343	119	1
August	273	48381	588	60931	119	1
September	251	48632	476	61407	116	1
October	512	49144	824	62231	1350	1
November	510	49654	722	62953	1036	1
December	567	50221	756	63709	1748	1
Total 1985	7856	50221	10961	63709	9263	1
January	680	50901	1165	64874	775	1
February	629	51530	945	65819	607	1
March	341	51871	1008	66827	248	1
April	304	52175	1018	67845	244	1
May	674	52849	1032	68877	255	1
June	413	53262	671	69548	419	1
July	310	53572	521	70069	539	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 5 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14533E03
 Lease: DOVE VK STATE Well #: 000001

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
August	404	53976	680	70749	476	1
September	290	54266	498	71247	336	1
October	321	54587	492	71739	437	1
November	300	54887	381	72120	209	1
December	312	55199	417	72537	242	1
Total 1986	4978	55199	8828	72537	4787	1
January	309	55508	443	72980	254	1
February	224	55732	358	73338	252	1
March	248	55980	445	73783	310	1
April	420	56400	786	74569	300	1
May	248	56648	511	75080	279	1
June	225	56873	494	75574	254	1
July	226	57099	484	76058	240	1
August	223	57322	496	76554	229	1
September	204	57526	436	76990	221	1
October	218	57744	420	77410	161	1
November	214	57958	365	77775	246	1
December	208	58166	350	78125	256	1
Total 1987	2967	58166	5588	78125	3002	1
January	222	58388	402	78527	256	1
February	200	58588	362	78889	230	1
March	201	58789	405	79294	207	1
April	188	58977	421	79715	212	1
May	194	59171	457	80172	212	1
June	176	59347	450	80622	201	1
July	185	59532	319	80941	196	1
August	179	59711	439	81380	221	1
September	175	59886	407	81787	213	1
October	178	60064	382	82169	274	1
November	172	60236	372	82541	210	1
December	178	60414	356	82897	200	1
Total 1988	2248	60414	4772	82897	2632	1
January	163	60577	319	83216	191	1
February	163	60740	291	83507	206	1
March	168	60908	327	83834	190	1
April	159	61067	334	84168	177	1
May	150	61217	327	84495	181	1
June	145	61362	436	84931	187	1
July	146	61508	451	85382	197	1
August	148	61656	441	85823	208	1
September	143	61799	405	86228	215	1
October	143	61942	405	86633	183	1
November	141	62083	377	87010	162	1
December	150	62233	348	87358	165	1
Total 1989	1819	62233	4461	87358	2262	1

Dwight's Energydata, Inc. DL00K 4.20 Record # 5 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14S33E031
 Lease: DOVE VK STATE Well #: 000001

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	296	62529	892	88250	135	1
February	250	62779	769	89019	109	1
March	278	63057	839	89858	121	1
April	260	63317	793	90651	288	1
May	256	63573	853	91504	288	1
June	240	63813	886	92390	252	1
July	191	64004	683	93073	208	1
August	278	64282	775	93848	333	1
September	335	64617	834	94682	938	1
October	398	65015	971	95653	1406	1
November	251	65266	630	96283	508	1
December	347	65613	849	97132	658	1
Total 1990	3380	65613	9774	97132	5244	1
January	317	65930	797	97929	396	1
February	309	66239	818	98747	794	1
March	309	66548	848	99595	500	1
April	266	66814	810	100405	298	1
May	250	67064	881	101286	295	1
June	238	67302	856	102142	260	1
July	238	67540	780	102922	285	1
August	214	67754	831	103753	208	1
September	184	67938	738	104491	55	1
October	210	68148	791	105282	73	1
November	211	68359	683	105965	68	1
Total 1991	2746	68359	8833	105965	3232	1



DRILLING REPORT - WORKOVER

Page 1

Yates Petroleum - Dove "VK" State #1 (Unit L) 3-14S-33E, Lea Co., NM

4-3-92 Moved in and rigged up pulling unit. TOH with rods and pump. Nippled down tubinghead and installed BOP. Dropped standing valve and pressure test tubing to 2000#. Did not hold. TOH with 2-7/8" tubing. Laid down 1 bad joint of 2-7/8" tubing. Shut down. Prep to TIH with RBP, packer and 2-7/8" tubing to test casing and 2-7/8" tubing. DC \$3620

4-4-92 TIH with tubing, packer and RBP. Tested tubing and casing, held OK. TIH with 4" casing guns and perforated with 54 holes (2 SPF) as follows: 9322', 23', 24', 25', 94', 96', 9402', 04', 06', 9448', 49', 50', 92', 93', 94', 9537', 38', 39', 9571', 72', 9619', 20', 9647', 48', 49', 9692', 9693'. TIH with packer and RBP. Correlated into place. Set and tested RBP, held OK.

4-5-92 Spot acid on perfs 9322-9693' (Zones 1,2,3). Could not break perfs at 6600#. Moved packer up and tried to break perfs 9537-9693' (Zones 1-5). Could not break but had slight bleed off. Spotted acid on all perfs Zone 1-Zone 9 and shut in overnight.

4-6-92 Acidized all perfs Zone 1-Zone 9 with 5000 gals 15% NEFE + scale inhibitor. Broke down 5800#. Treating Pressures: Max 6100#, Min 5686#, Avg 5982# at 2.1 BPM. ISDP 5757, 5 mins 5607#, 10 mins 5456#, 15 mins 5347#. Total load to recover 185 bbls. Swabbed all night as follows:

TIME	F.L.	WATER	OIL	GAS
3:30-4:30 PM	Flwg back	29	0	0
4:30-5:30 PM	3000'	35	0	0
5:30-6:30 PM	4800'	25	0	0
6:30-7:30 PM	4500'	17	2%	slight
7:30-8:30 PM	7800'	22	2%	slight
8:30-9:30 PM	8000'	20	2%	slight
9:30-10:30 PM	8900'	8	5%	slight
10:30-11:30 PM	8900'	5	20%	slight
11:30-12:30 AM	9000'	3	30%	slight
12:30-1:30 AM	9200'	2	40%	slight
1:30-2:30 AM	9200'	2	50%	slight

Total recovered 172 bbls (168 BW + 4 BO). Load left 13 bbls. Shut in. This AM (4-6-92) - Overnight SITP 95#. Initial fluid level 7500'. First swab run 4 bbls with 25% oil. DC \$17,646; CC \$21,266

4-7-92 No report.

4-8-92 Unset packer at 9119'. Dropped down and unset RBP at 9409'. TOH with 2-7/8" tubing, packer and RBP. Left 1st RBP set at 9732'. Turned well over to production. (NOTE: Laid down 2-7/8" N-80 tubing) DC \$7400
 Pumped 0 bbls oil and 80 bbls water in 9-1/2 hours.

4-9-92 No report.

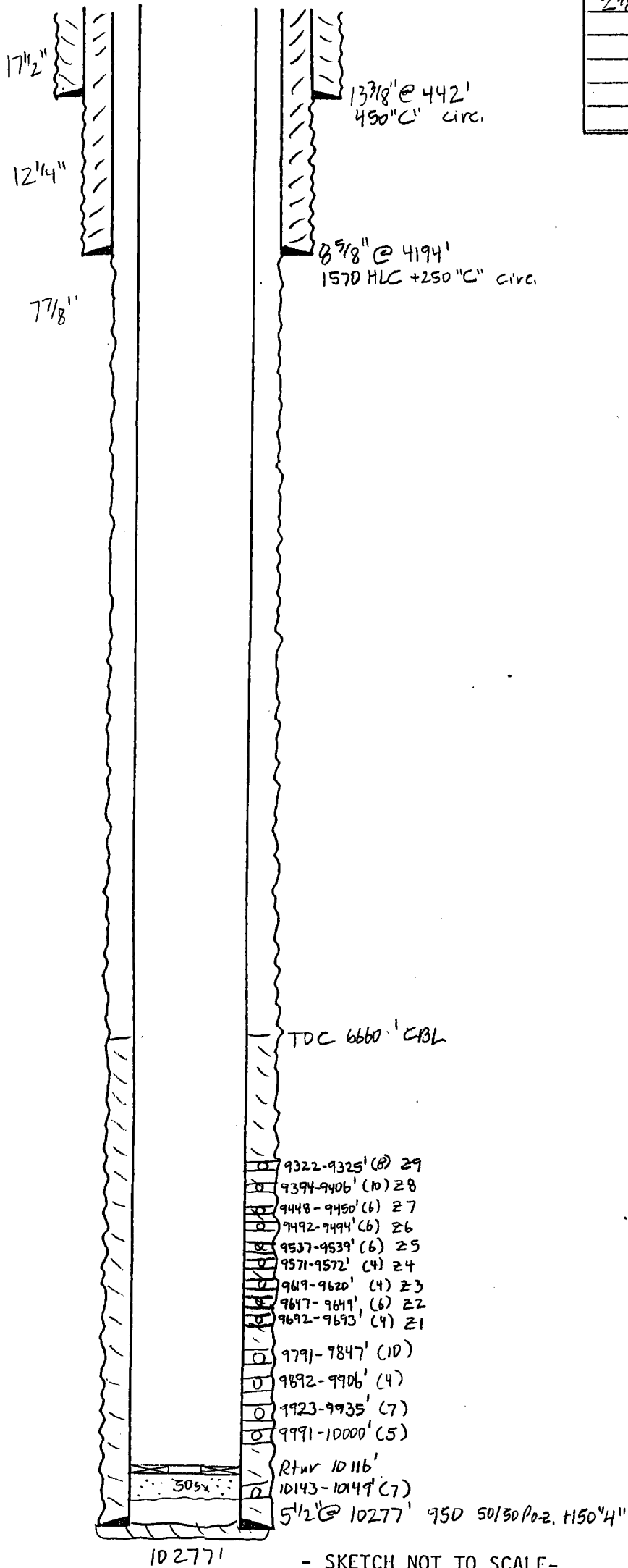
4-10-92 No report.

4-11-92 Returned to production. FINAL REPORT.

5-10-92 3 BOPD 142 BWPD
 5-11-92 6 BOPD 132 BWPD

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
13 ³ / ₈ 54.5 J55 STC	442'
8 ⁵ / ₈ 32 J55	4194'
5 ¹ / ₂ 17 , N80, H55 LTC	10277'
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