

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
JUL 28 1992
YATES
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,

Gina Huerta for Brian Collins

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July 28, 1992

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

Gentlemen,

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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

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
Dove VK St. #4	G 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
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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
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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Lina 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,

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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,

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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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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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Brian Collins
Engineer

BC/th

COMMINGLING DATA FOR THE PALOMA WW 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:

Paloma WW State #1
Unit F Sec 3-T14S-R33E
1980' FNL & 1980' 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

9737'-9886'

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

Wolfcamp

9300'-9612'

See attached workover summary (Attachment C). Wolfcamp pump tested 3 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 10%/yr. (best engineering estimate).

$Q_i = 7 \text{ BOPD}$

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

$d = 10\% / \text{yr.}$

$$N_{\text{oil}} = \frac{365 (Q_{\text{el}} - Q_i)}{\ln(1-d)} = \frac{365 (2-7)}{\ln(1-.1)} = 17321 \text{ BO}$$

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

$$Q_i = 3 \text{ BOPD}$$

$$Q, 2 \text{ yr.} = 0.75 \text{ BOPD}$$

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

$$N = \frac{365 (0.75-3)}{\ln(1-.5)} = 1185 \text{ BO}$$

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 = 1536 psi at 9670' based on direct BHP measurement performed 10-16-83. Current BHP in Penn is unknown.

Estimated BHP of Wolfcamp = 1502 psi at 9456' from pressure gradient of Penn.

$$\frac{(1536 \text{ psi}) (9456 \text{ ft.})}{(9670 \text{ ft.})} = 1502 \text{ psi}$$

- 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.

$$\text{Oil: } \frac{\text{Penn} - 17321 \text{ BO}}{18506 \text{ BO}} = 93.60\%, \text{ say } 94\%$$

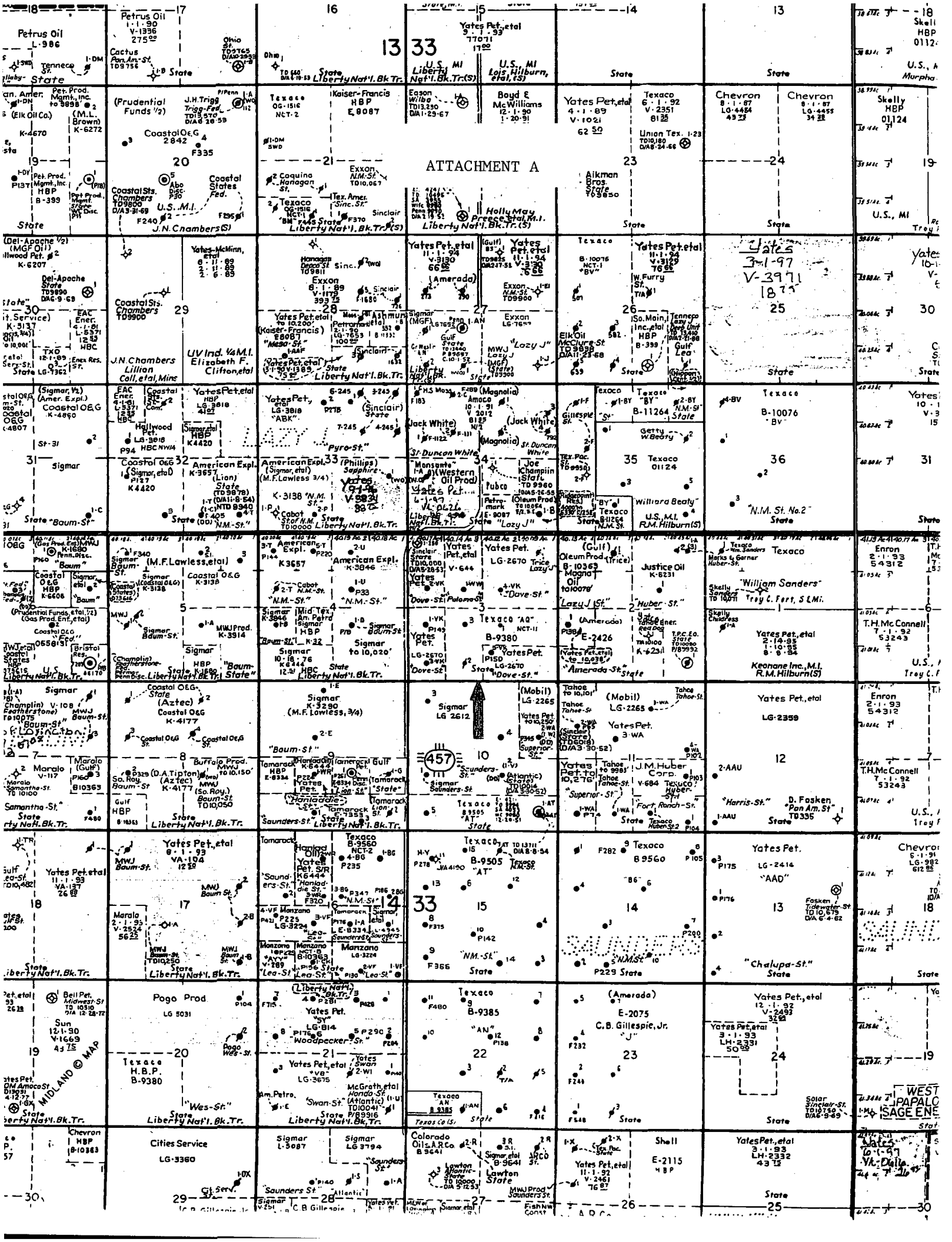
$$\frac{\text{Wolfcamp} - 1185 \text{ BO}}{18506 \text{ BO}} = 6.40\%, \text{ say } 6\%$$

$$\text{Gas: } \text{Penn} - 94\%$$

$$\text{Wolfcamp} - 6\%$$

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 Paloma WW State #1.



ATTACHMENT B

Page 1

Dwight's Energydata, Inc. DL00K 4.20 Record # 3 Run date: 04/07/91
 Property data from file: tulk.dmp Retrieval code: 150,025,14S33E03

Operator (#806779)	Lease name	Well #
YATES PETROLEUM CORP	PALOMA WW STATE	000001

Ident. #	State	Dist	County	Location	Lse/tax /unit #
14S33E03F00PN	NM(30)	002	025 LEA	3F 14S 33E	744

API #	Field (#8040674)	Reservoir
30-025-28137	LAZY J (PENN)	PN PENN

Total Depth	Perforations Upper Lower	Temp Gradient	N-Factor	GQR
10185	0 0	0.000	0.000	0

Comp Date	Production Dates First Last	Status Date	Status
0	8310 9111	0	ACT

Cumulative gas MCF	Since FP Date	Gas Gravity	Gas Gatherer
66624	FP Date	0.00	

Cumulative liquid BBL	Since FP Date	Liquid Gravity	Liquid Gatherer
28975	FP Date	0.00	KOCHO

Dwight's Energydata, Inc. DL00K 4.20 Record # 3 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14S33E031
 Lease: PALOMA WW STATE Well #: 000001

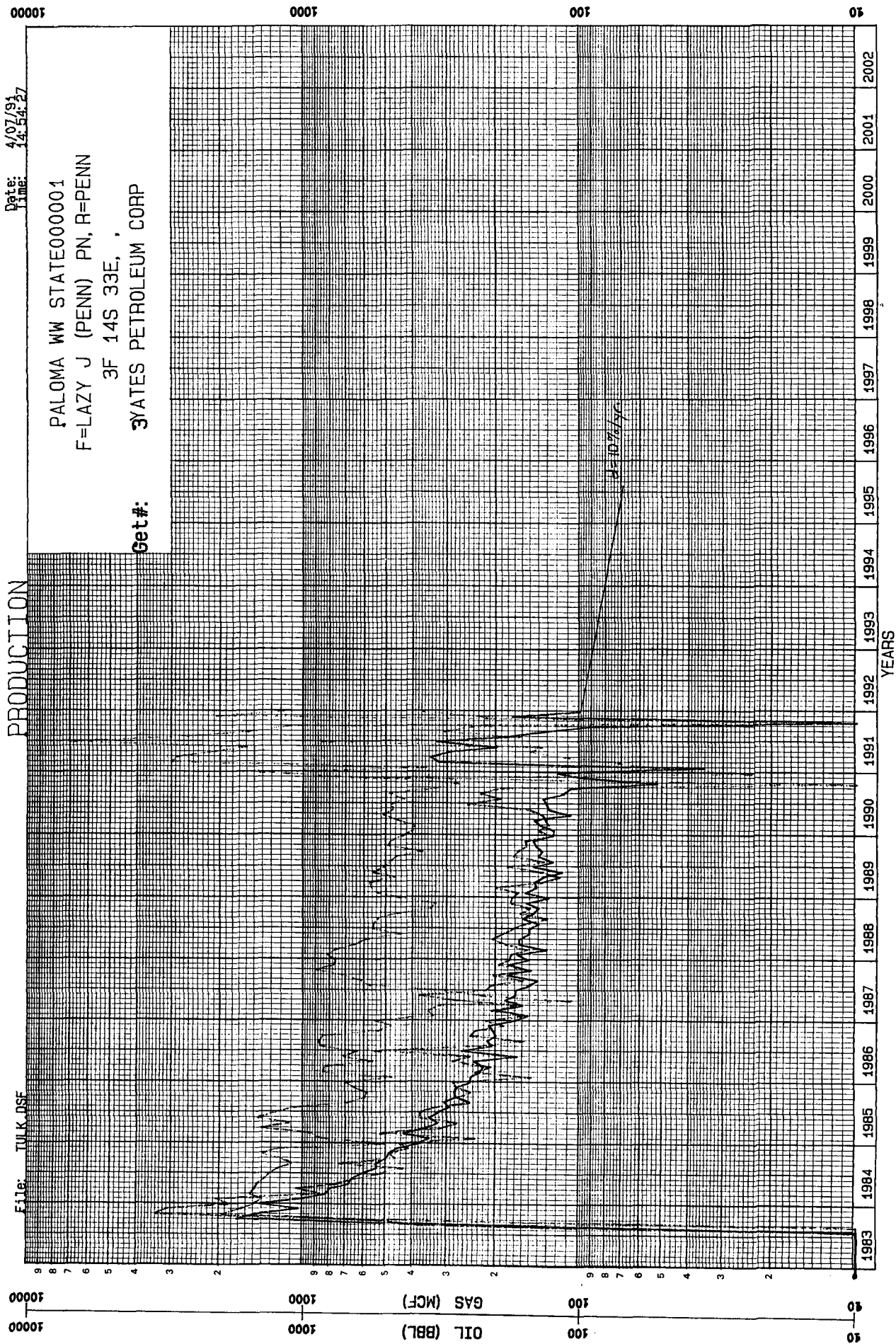
Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No.of Wells
January	0	0	0	0	0	1
February	0	0	0	0	0	1
March	0	0	0	0	0	1
April	0	0	0	0	0	1
May	0	0	0	0	0	1
June	0	0	0	0	0	1
July	0	0	0	0	0	1
August	0	0	0	0	0	1
September	0	0	0	0	0	1
October	218	218	0	0	380	1
November	1747	1965	610	610	555	1
December	1514	3479	1983	2593	3430	1
Total 1983	3479	3479	2593	2593	4365	1
January	1051	4530	1694	4287	3135	1
February	1444	5974	1533	5820	1875	1
March	1007	6981	1416	7236	2076	1
April	838	7819	1566	8802	870	1
May	807	8626	1508	10310	1060	1
June	691	9317	1479	11789	765	1
July	672	9989	1385	13174	658	1
August	625	10614	1344	14518	539	1
September	548	11162	1241	15759	435	1
October	551	11713	1112	16871	750	1
November	506	12219	1219	18090	468	1
December	494	12713	1424	19514	490	1
Total 1984	9234	12713	16921	19514	13121	1
January	461	13174	1219	20733	420	1
February	385	13559	509	21242	450	1
March	354	13913	867	22109	240	1
April	438	14351	953	23062	530	1
May	366	14717	1435	24497	320	1
June	331	15048	1140	25637	280	1
July	354	15402	1475	27112	380	1
August	329	15731	1273	28385	380	1
September	299	16030	1091	29476	340	1
October	311	16341	694	30170	250	1
November	284	16625	605	30775	280	1
December	286	16911	593	31368	250	1
Total 1985	4198	16911	11854	31368	4120	1
January	279	17190	656	32024	280	1
February	251	17441	705	32729	290	1
March	249	17690	477	33206	150	1
April	231	17921	854	34060	240	1
May	225	18146	849	34909	211	1
June	243	18389	562	35471	290	1
July	170	18559	720	36191	250	1

Dwight's Energydata, Inc. DL00K 4.20 Record # 3 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14533E031
 Lease: PALOMA WW STATE Well #: 000001

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
August	270	18829	643	36834	555	1
September	210	19039	877	37711	230	1
October	218	19257	887	38598	160	1
November	203	19460	859	39457	250	1
December	208	19668	538	39995	240	1
Total 1986	2757	19668	8627	39995	3146	1
January	215	19883	483	40478	190	1
February	174	20057	555	41033	220	1
March	156	20213	342	41375	160	1
April	201	20414	357	41732	210	1
May	163	20577	326	42058	170	1
June	188	20765	108	42166	280	1
July	173	20938	226	42392	385	1
August	172	21110	306	42698	220	1
September	153	21263	579	43277	210	1
October	143	21406	623	43900	160	1
November	184	21590	721	44621	207	1
December	153	21743	907	45528	150	1
Total 1987	2075	21743	5533	45528	2562	1
January	181	21924	781	46309	198	1
February	154	22078	773	47082	180	1
March	170	22248	830	47912	178	1
April	133	22381	774	48686	156	1
May	167	22548	661	49347	185	1
June	167	22715	605	49952	210	1
July	154	22869	445	50397	192	1
August	154	23023	568	50965	177	1
September	142	23165	563	51528	159	1
October	161	23326	544	52072	132	1
November	148	23474	458	52530	165	1
December	142	23616	347	52877	152	1
Total 1988	1873	23616	7349	52877	2084	1
January	157	23773	334	53211	180	1
February	131	23904	450	53661	177	1
March	159	24063	544	54205	168	1
April	145	24208	571	54776	203	1
May	147	24355	580	55356	138	1
June	137	24492	470	55826	119	1
July	117	24609	566	56392	138	1
August	148	24757	513	56905	183	1
September	126	24883	488	57393	135	1
October	142	25025	465	57858	174	1
November	138	25163	374	58232	169	1
December	145	25308	499	58731	156	1
Total 1989	1692	25308	5854	58731	1940	1

Dwight's Energydata, Inc. DLOOK 4.20 Record # 3 Run date: 04/07/91
 Production data from file: tulk.dmp Retrieval code: 150,025,14833E03
 Lease: PALOMA WW STATE Well #: 000001

Month	Oil bbls	Cum Oil bbls	Gas mcf	Cum Gas mcf	Water bbls	No. of Wells
January	148	25456	486	59217	158	1
February	126	25582	441	59658	127	1
March	125	25707	404	60062	141	1
April	140	25847	399	60461	130	1
May	147	25994	464	60925	134	1
June	109	26103	521	61446	137	1
July	131	26234	476	61922	153	1
August	133	26367	484	62406	257	1
September	137	26504	435	62841	194	1
October	116	26620	495	63336	231	1
November	109	26729	341	63677	196	1
December	53	26782	277	63954	0	1
Total 1990	1474	26782	5223	63954	1858	1
January	97	26879	517	64471	601	1
February	122	27001	24	64495	1477	1
March	36	27037	53	64548	362	1
April	329	27366	73	64621	3053	1
May	352	27718	111	64732	2921	1
June	301	28019	153	64885	2167	1
July	203	28222	139	65024	1610	1
August	335	28557	875	65899	7174	1
September	188	28745	164	66063	2629	1
October	136	28881	313	66376	1603	1
November	94	28975	248	66624	1154	1
Total 1991	2193	28975	2670	66624	24751	1



DRILLING REPORT - WORKOVER

Page 1

Yates Petroleum - Paloma "WW" State #1 (Unit F) 3-14S-33E Lea Co., NM

4-2-92 Moved in and rigged up pulling unit. Nippled down wellhead. Unset pump, but could not pull rods and pump due to tubing full of paraffin. Unset tubing anchor. Stripped 1600' of rods and tubing out of hole. Shut down. Prep to strip rest of rods and tubing out of hole. DC \$4677

4-3-92 Strip out of hole with rods, 2-7/8" tubing and tubing anchor. Shut down. Prep to TIH with RBP, packer and 2-7/8" tubing and test casing and tubing. DC \$1571; CC \$6248

4-4-6-92 TIH with RBP, packer and 2-7/8" tubing. Set RBP at 9661'. Loaded hole with 2% KCL water. Set packer at 9652' and tested annulus to 800# for 12 mins. Pressured tubing to 3000# for 10 mins. TOH with 2-7/8" tubing and packer. TIH with casing guns and perforated 2 SPF as follows: 9610', 11', 12', 9579', 80', 81', 9548', 49', 50', 9470', 71', 72', 73', 9372', 74', 76', 84', 86', 9300', 01', 02'. TOH with casing guns. TIH with packer and 2-7/8" tubing to 9636'. TIH with 1-11/16" GR tool and correlated RBP into place at 9647'. TOH with GR tool and rigged down wireline. Shut down. Prep to acidize. DC \$4541; CC \$10,789

4-7-92 Spot 3 bbls 15% NEFE acid across perfs 9548-9612'. Pulled up and set packer at 9517'. Started acid breakdown. Tubing split at 5600#. Unset packer and TOH with 2-7/8" tubing and packer. Found split joint at 6662'. Shut down. Prep to TIH and acidize. DC \$6005; CC \$16,794

4-8-92 TIH with 2-7/8" tubing to 9640'. Circulated hole with 2% KCL water. TOH with 2-7/8" tubing. Shut down to wait on string of N-80. DC \$2776; CC \$19,570

4-9-92 Picked up string of 2-7/8" N-80 tubing. TIH with packer and 2-7/8" N-80 to 9614'. Spot 8 bbls 28% NEFE acid across perfs 9612-9300'. Pulled up and set packer at 9174'. Pressure annulus to 1000#. Acidized Zones 1-6 (9300-9612') with 5000 gals 15% NEFE acid with 10 gals/1000 scale inhibitor + 30 ball sealers. Broke down at 4600#. First set of balls got 300# increase. Broke back from 6700# to 5900#. Second set of balls - no action. Third set of balls had 600# increase and did not break back. Avg 4.6 BPM at 6300#. ISDP 4700#, 15 mins 4350#. Total load to recover 203 bbls. Bled pressure down to swab tank. TOH and laid down 2-7/8" N-80 and packer. Turned over to production to hang well on pump. NOTE: RBP set and tested to 2000# at 9647'. DC \$8767; CC \$28,337

4-10-92 No report.

4-11-92 Pumped 0 bbls oil and 437 bbls water in 15 hours.

4-12-92 Pumped 0 bbls oil and 110 bbls water.

4-13-92 Pumped 0 bbls oil and 18 bbls water.

4-14-92 Pumped 0 bbls oil and 60 bbls water.

4-15-92 Pumped 3 bbls oil and 56 bbls water in 12 hours.

4-16-92 Pumped 3 bbls oil and 80 bbls water.

4-17-92 Pumped 3 bbls oil, 76 bbls water and 26 MCF.

4-18-92 Pumped 3 bbls oil, 15 bbls water and 26 MCF.

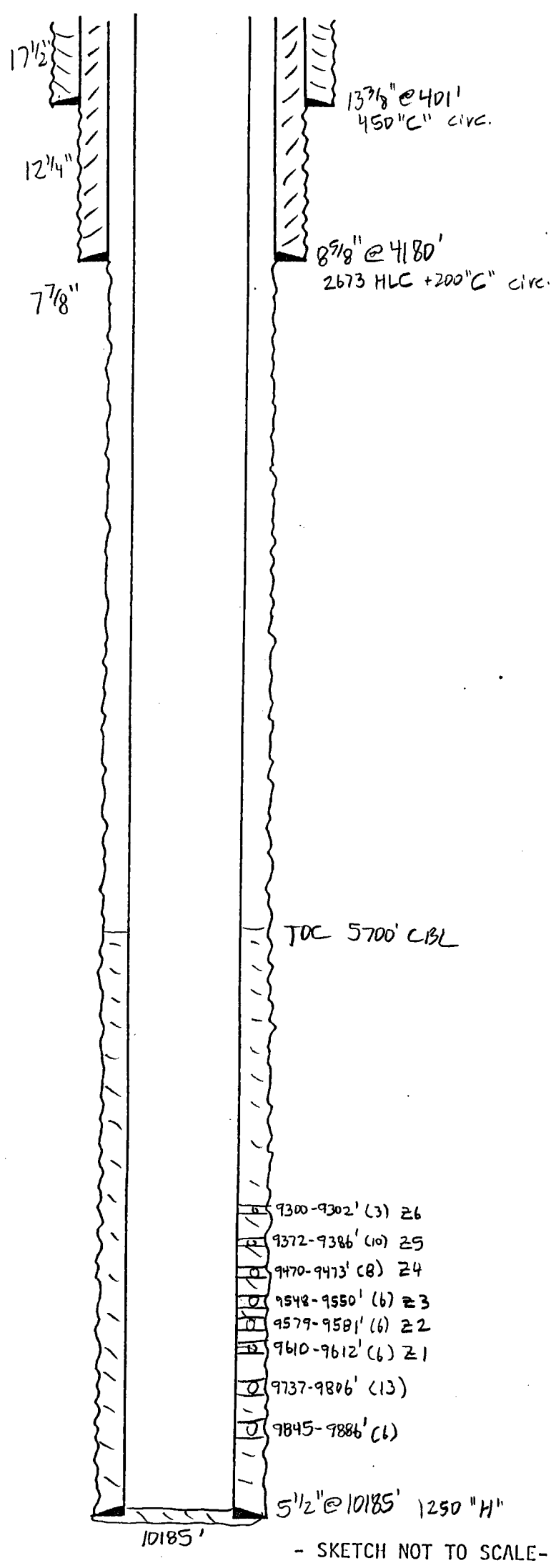
4-19-92 Pumped 3 bbls oil, 18 bbls water and 26 MCF.

4-20-92 Pumped 3 bbls oil, 15 bbls water and 26 MCF.

WELL NAME: Paloma WW St. 1 FIELD AREA: Lazy J
 LOCATION: 1980' FNL, FWL F-3-145-33e Lea NM
 GL: 4224.2' ZERO: 17' AGL:
 KB: 4241.2' ORIG. DRLG./COMPL. DATE:
 COMMENTS:

CASING PROGRAM:

SIZE/WT./GR./CONN.			DEPTH SET
13 ³ / ₈	54.5	H55 STC	401'
8 ⁵ / ₈	32	J55 STC	4180'
5 ¹ / ₂	17	N80 LTC	1395'
	17	J55 LTC	8080'
	17	N80 LTC	10185'
2 ⁷ / ₈ "			



Proposed Schematic

- SKETCH NOT TO SCALE -

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,

[Signature]
Jerry Sexton
Supervisor, District 1

/ed