

DHC 8.3.95

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



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

S. P. YATES  
CHAIRMAN OF THE BOARD  
JOHN A. YATES  
PRESIDENT  
PEYTON YATES  
EXECUTIVE VICE PRESIDENT  
RANDY G. PATTERSON  
SECRETARY  
DENNIS G. KINSEY  
TREASURER

July 10, 1995

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

Dear Mr. Catanach,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Zinnia Federal Unit #1 located in E of Section 27, Township 20 South, Range 29 East, Eddy County.

Should you have any questions, feel free to contact me at (505) 748-4182.  
Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins  
Engineer

BC/th

Enclosures

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TREASURER

July 10, 1995

Tim Gum  
State of New Mexico  
OIL CONSERVATION DIVISION  
Drawer DD  
Artesia, NM 88210

Dear Mr. Gum,

Enclosed are the necessary documents for obtaining approval for the downhole commingling of the Zinnia Federal Unit #1 located in E of Section 27, Township 20 South, Range 29 East, Eddy County.

Should you have any questions, feel free to contact me at (505) 748-4182.  
Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins  
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TREASURER

July 10, 1995

Richard Manus  
Bureau of Land Management  
P. O. Box 1778  
Carlsbad, NM 88220

Dear Mr. Manus,

Enclosed for your information is the data necessary to obtain approval for the downhole commingling of the following well:

Zinnia Federal Unit #1  
Unit E Sec. 27-T20S-R29E  
Eddy County, New Mexico  
Operator: Yates Petroleum Corporation

This application has been submitted to the NMOCD in Santa Fe and Artesia. If you have any questions, please contact me at 505-748-4182. Thank you.

Sincerely,

A handwritten signature in black ink that appears to read "Brian Collins".

Brian Collins  
Engineer

BC/th

Enclosures

**Application for Downhole Commingling**  
**Zinnia Federal Unit #1**  
**Unit E Sec. 27-T20S-R29E**  
**Eddy County, New Mexico**

Reason for Application: Yates Petroleum Corporation respectfully requests approval to commingle the Strawn and Wolfcamp formations. Our intention is to maximize gas recovery from the Strawn and Wolfcamp and prevent mineral resource waste.

**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:**

Zinnia Federal Unit #1  
Unit E Sec. 27-T20S-R29E  
1980'FNL & 910'FWL  
Pools: Undesignated Strawn  
Undesignated 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.**

See Attachment B (tabular production data).  
Strawn capable of approximately 10 BOPD/50 MCFD.  
Strawn perfs: 10965' - 10988' MD.  
Proposed Wolfcamp perfs: 9902' - 9909', 10188' - 10216' MD (Not tested yet)

**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 within 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 B.

Best engineering estimate exponential decline curve analysis results in a remaining ultimate recovery of 4213 BO/21,063 MCF for the Strawn.

$$d = 50\%/\text{yr}$$

$$Q_i = 50 \text{ MCFD}, 10 \text{ BOPD}$$

$$Q_{\text{aban}} = 10 \text{ MCFD}, 2 \text{ BOPD}$$

$$N_R \text{ gas} = \frac{365 (10-50)}{1n (1-5)} = 21,063 \text{ MCF} \quad N_R \text{ oil} = \frac{365 (2-10)}{1n (1-5)} = 4213 \text{ BO}$$

We propose to test the Wolfcamp from 9902' to 10216' until commercial production is established and commingle with the Strawn. We want to commingle the Strawn with the Wolfcamp to maximize drainage from the Strawn and prevent the waste of mineral resources. We can't determine the Wolfcamp reserves until we've tested it.

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

See Attachment C (Mud weight required for Wolfcamp from drilling chronological)  
(DST in Strawn on Trigg AIN Fed. #1 Sec. 28-20S-29E).

A reasonable estimate of the Strawn BHP is 4766 psi @ 10685' TVD taken from a drill stem test on the Trigg AIN Fed. #1 located in Sec. 28-20S-29E which had a pressure gradient of 0.446 psi/ft. A reasonable estimate of the Wolfcamp BHP is 5272 psi taken from the 10.2 ppg MW necessary to control the Wolfcamp @ 9939' TVD.

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

Both Strawn and Wolfcamp will produce sweet gas. Don't anticipate any compatibility 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 Strawn and Wolfcamp will produce sweet gas. The value of the gas will not be affected by commingling. By commingling, an estimated additional 4213 BO/ 21,063 MCF will be produced from the well.

- 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.

We propose to test the Wolfcamp before recommending an allocation formula. As soon as the Wolfcamp has been tested, we will submit an allocation formula.

- 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 and the BLM were notified of the proposed commingling of the Zinnia Federal Unit #1.

**ATTACHMENT A**

BURTON, E. (WOM) (TXO)  
2MII (Williamson  
Federal)

GATUNA CANYON

And  
End

ENGR502 INTERNAL PRODUCT REPORT  
PRODUCTION DATE: June, 1995

PAGE 1  
945244 7/10/95

WELL #060405-001-S1 GAS  
FIELD #928 UNDESIGNATED (EXXON)  
LOCATION: FEDERAL  
FEDERAL

OPENING STOCK-- 81.61  
CLOSING STOCK-- 201.42

Attachment B

DAY	TP	CP	CHOKE	METER	DRF	STATIC	DIF	WATER	WATER FILLED	OIL SOLD	GAS REMARKS
01	100/	0	26/64	3.000	1.500	100.0	.3	3.00		14.00	
02	110/	0	26/64	3.000	1.500	110.0	.1	.00		14.00	
03	80/	0	26/64	3.000	1.500	80.0	.1	.00		14.00	
04	80/	0	26/64	3.000	1.500	80.0	.2	.00		14.00	
05	80/	0	26/64	3.000	1.500	80.0	.4	9.00		14.00	
06	80/	0	26/64	3.000	1.500	80.0	.4	3.00		14.00	
07	80/	0	26/64	3.000	1.500	80.0	.5	9.00		16.00	
08	80/	0	26/64	3.000	1.500	80.0	.5	6.00		20.00	
09	80/	0	26/64	3.000	1.500	80.0	.2	3.00		14.00	
10	80/	0	26/64	3.000	1.500	80.0	.2	.00		14.00	
11	70/	0	26/64	3.000	1.500	70.0	.2	.00		11.70	
12	80/	0	26/64	3.000	1.500	80.0	.2	6.00		8.19	
13	80/	0	26/64	3.000	1.500	80.0	.2	18.00		9.36	
14	80/	0	26/64	3.000	1.500	80.0	.8	3.00		14.00	
15	75/	0	26/64	3.000	.875	75.0	1.0	.00		8.19	
16	80/	0	26/64	3.000	.875	80.0	1.0	3.00		14.00	
17	75/	0	26/64	3.000	.875	75.0	1.0	.00		7.00	
18	175/	0	26/64	3.000	.875	80.0	.8	.00		8.19	
19	100/	0	26/64	3.000	.875	80.0	.5	.00		7.02	
20	80/	0	26/64	3.000	.875	80.0	.5	.00		2.32	
21	80/	0	26/64	3.000	.875	80.0	.5	.00		7.00	
22	80/	0	26/64	3.000	.875	80.0	1.0	1.00		12.00	
23	80/	0	26/64	3.000	.875	80.0	.5	10.00		8.00	
24	80/	0	26/64	3.000	.875	80.0	.5	6.00		7.00	
25	80/	0	26/64	3.000	.875	80.0	.2	.00		7.02	
26	165/	0	26/64	3.000	.875	80.0	.5	19.00		2.32	
27	200/	0	26/64	3.000	.875	85.0	.5	3.00		9.36	
28	150/	0	26/64	3.000	.875	95.0	.3	.00		6.19	
29	100/	0	26/64	3.000	.875	80.0	.3	.00		7.02	
30	100/	0	26/64	3.000	.875	100.0	1.0	8.00		3.51	
										120.00	306.39
											1514

Avg. Daily Prod. = 10 bpd

4 bpd  
50 mcf

Strawn

 BAKER SERVICE TOOLS  
Units

# DRILL STEM TESTING OPERATION REPORT

Strawn

Lynes District	Hobbs NM	84765	Date	6-2	1991 Field Ticket	258-78184
Operator	Kates Petroleum Corp					
Address	103 South 4th Street					
City/State	Albuquerque NM	88210				
Well Name & Number	Trigay AIN Federal	9	DST No.	4	Est. Porosity	8%
Contractor	Zia Drills		Flow No. 1	5	Net Fl. Pay	9
Rig No.	3		Shut-in No. 1	60	Min.	
Spot	1580 ENE + 60 FEL		Flow No. 2	60	Min.	
Sec.	38		Shut-in No. 2	180	Min.	
Twp.	29 South		Flow No. 3	60	Min.	
Rng.	29 East		Shut-in No. 3	60	Min.	
Field	Burnham Flats		Bottom Hole Temp.	178°		
County	Eddy		Mud Weight	9.3		
State	New Mexico		Gravity			
K. E. Elevation			Viscosity	31		
Formation	Strawn		Type of Test	Bottom Hole Seal		

Caliper Log Run Prior to Test: Yes  No 

Caliperd Hole Size @ Top Pkr. \_\_\_\_\_ Bottom Pkr. \_\_\_\_\_

Did well flow gas yes In 32 mins.

Did well flow oil no In — mins.

Did well flow water no In — mins.

If well did flow, during which flow or shut-in period did gas/fluid reach surface?

Third Flow Period**BOTTOM HOLE SAMPLER**

Pressure in Sampler: 250 PSIG

Total Volume of Sampler: 7450 cc.

Total Volume of Sample: 950 cc.

Where was Sample drained? Rig Floor

Oil: 500 cc.

Water: 450 cc.

Mud: — cc.

Gas: 125 cu. ft.

Other:

Sample R. W.: Grab at 60° 87,000 PPM/cbl

Gravity: Gas/Oil Ratio

Make Up Water R. W.:

Mud Pit Sample R. W.: Grab at 60° 109,000 PPM/cbl

Bottom of Top Packer	551
Bottom of Second Packer	560
Top of Straddle Packer	—
Top of Fourth Packer	—
Length of Test Interval	97'
Test Interval: Anchor	37
Below Straddle: Anchor	—
Was tool plugged?	No
Did straddle pkr. hold?	—
REMARKS:	Good Mechanical Test Gage 25178 ran above shut in Tool
Recorder No.	Ran Under Straddle Pkr.

Type	No.	Clock	Type	No.	Clock	Type	No.	Clock
Cap. 6675	Loc. 10540	No. 26508	Cap. 6675	Loc. 10571	No. 30827	Cap. 16,000	Loc. 10571	No. 15
Inside X	Outside	Hrs. 24	Inside	Outside X	Hrs. 24	Inside	Outside X	Hrs. 15
Press.	Field	Corrected	Press.	Field	Corrected	Press.	Field	Corrected
IH	A	5013	IH	5040		IH	5050	
FH	K	5009	FH	5040		FH	5062	
IF-1	B	496	IF-1	516		IF-1	530	
FF-1	C	513	FF-1	540		FF-1	542	
IP-2	E	380	IP-2	397		IP-2	405	
FF-2	F	462	FF-2	480		FF-2	490	
IF-3	H	413	IF-3	435		IF-3	440	
FF-3	I	462	FF-3	470		FF-3	500	
SIP-1	D	4662	SIP-1	4613		SIP-1	4622	
SIP-2	G	4573	SIP-2	4620		SIP-2	4643	
SIP-3	J		SIP-3			SIP-3		

BST TECHNICIAN

RESERVOIR ANALYSIS? YES

WELL OWNERS REPRESENTATIVE (Please Print Legibly)

*Bobby Fisher*  
FORMCO # BSR20-37 (4/87)

No. Final Copies 12

*Craig Huber*

FORM DISTRIBUTION: (1) WHITE, DST DEPT. COPY; (2) CANARY, DISTRICT COPY; (3) PINK, CUSTOMER COPY; (4) GOLD, HOUSTON ANDY



#### **MAINTENANCE TOOLS**

**HUBBS  
DRILL STEM TESTING  
SEQUENCE REPORT**

P.2

Strawn

DST #4

Lynne Blumler Hobbes NED

Operator \_\_\_\_\_ Yotsa

### **Address:**

卷之三

1891 Field Ticket 25B-76184

## **BBT TECHNICIAN**

RESERVOIR ANALYST - VCA

**WELL OWNERS REPRESENTATIVE (Please Print / Legible)**

Berry Fisher  
FORMCO 5 SET 30-38 (4/87)

No. Final Grades 12

Gretta Huber

**FORM DISTRIBUTION: (1) WHITE, DST DEPT. COPY; (2) CANARY, DISTRICT COPY; (3) PINK, CUSTOMER COPY; (4) GOLD, HAILEYTON COPY**

**\*\* PRELIMINARY ANALYSIS \*\***

Strawn

**TEST PARAMETERS**

RECORDER NUMBER	312	HOLE SIZE	7.875 IN
RECORDER DEPTH	10571 FT	TEMPERATURE	638 DEG R
ELEVATION	3284 FT (KB)	COMPRESSIBILITY	0.85
DATUM	-7287 FT	1ST FLOW TIME	4 MIN
PAY THICKNESS	9 FT	1ST SHUT-IN TIME	62 MIN
VISCOSITY	0.015 CP	2ND FLOW TIME	64 MIN
POROSITY FRACTION	0.08	2ND SHUT-IN TIME	180 MIN
		3RD FLOW TIME	66 MIN
		3RD SHUT-IN TIME	1 MIN

**C A L C U L A T I O N S**

$$\text{Gradient} = \frac{4710}{10571} \\ = .446 \text{ psi/ft.}$$

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI) .....	4709.9
NUMBER OF POINTS USED .....	3
SLOPE (PSI SQUARED/LOG CYCLE) .....	30135792.0
EXTRAPOLATED SECOND SHUT-IN PRESSURE (PSI) .....	4685.0
NUMBER OF POINTS USED .....	8
SLOPE (PSI SQUARED/LOG CYCLE) .....	2736895.3
EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI) .....	INDETERMINATE
NUMBER OF POINTS USED .....	
SLOPE (PSI SQUARED/LOG CYCLE) .....	
AVERAGE PRODUCTION RATE (MCF/DAY) .....	128.00
TRANSMISSIBILITY (MD.-FT./CP.) .....	41.52
FLOW CAPACITY (MD.-FT.) .....	0.62
PERMEABILITY (MD.) .....	0.0692
PRODUCTIVITY INDEX (MCF/DAY/PSI) .....	0.031
ESTIMATED DAMAGE RATIO (EDR) .....	1.8
SKIN FACTOR (S) .....	4.3
PRESSURE DROP DUE TO SKIN (PSI) .....	1277.0
APPROXIMATE RADIUS OF INVESTIGATION (FT.) .....	18.0
DRAWDOWN FACTOR (%) .....	0.5
POTENTIOMETRIC SURFACE (FT.) .....	3629.0

## DRILLING REPORT

Page 6

Yates Pet. - Minntech Rig 1000 - Drill Job (Unit B) 27-208-29B Eddy  
Co., NM

\*\*\*\*\*

\*\*\*\*\*

**surveys.** Hydro-test BOP, rams and accessories to 5000 psi and Hydrill to 2500 psi. WIH and inspected BHA. Washed 82' to bottom and displaced hole with 10#/gal brine. CMC \$4398; DC \$17,121; CC \$561,577

2-2-95

Drilling 9845' sand, shale and lime. Made 250' in 22-1/4 hours, 11.2'/hr. MW 10, Vis 32, PV 3, YP 5, Gels 4/1, pH 10.5, WL 26, FC film, Cl 178,000, Solids .75%, Sand trace, Calcium 240, KCl 3.4%. BGG 20, Max 80. WOB 40M, RPM 65, SPM 106, PP 1600#. Installed rotating assembly. Survey: closure 1308' S 87 deg E; Inclination and drift 20.75 deg N 88 deg E. DMC \$3991; CMC \$8560; DC \$15,941; CC \$577,518

*Wolfcamp*

2-3-95

Drilling 10,030' lime and shale. Made 185' in 20 hours, 9.1'/hr. MW 10, Vis 36, PV 4, YP 8, Gels 6/1, pH 10, WL 20, FC film, Cl 178,000, Solids .75%, Calcium 200, KCL 3.4%. BGG 45, Max 175. Survey: closure 1361' S 87 deg E; MD 9835' inclination and drift 18.5 deg N 90 deg E. WOB 48M, RPM 65, SPM 106, PP 1500#. Pulled 5 stands. Repaired swivel and WIH. DMC \$1486; CMC \$10,046; DC \$9666; CC \$587,184

2-4-95

TD 10,206' shale and lime. Circulate on choke. Made 176' in 19-1/2 hours, 9.02'/hr. MW 10.2, Vis 35, PV 5, YP 8, Gels 6/1, pH 10, WL 10, FC film, Cl 176M, Calcium 260, KCL 3.4%. BGG 50, Max 1600. WOB 48M, RPM 65, SPM 96, PP 2250#. Drilled to 10,260', 9938 TVD. Check flow at 10,199' - no flow, and 10,260' - flowed. SIDP 126 psi. 31 bbl pit gain. Increased MW from 10 to 10.2#/gal and circ on choke. DMC \$3712; CMC \$13,758

2-5-95

Drilling 10,410' shale and lime. Made 204' in 17-3/4 hours, 11.5'/hr. MW 10.2, Vis 34, PV 9, YP 5, Gels 5/8, pH 10, WL 14, FC film, Cl 176M, Solids 1, Sand trace, Calcium 260, KCL 3.4%. BGG 250, Max 1800, CG trace. WOB 48M, RPM 65, SPM 92, PP 2050#. Circulated on choke at 10,249' and 10,252' (gas cut mud). DMC \$3656; CMC \$17,414; DC \$11,836; CC \$610,912

*Wolfcamp Pressure*

2-6-95

Drilling 10,680' shale and lime. Made 270' in 23-1/4 hours, 11.6'/hr. MW 10., 3 Vis 35, PV 6, YP 5, Gels 6/3, pH 10.5, WL 14, FC film, Cl 176M, Solids 1-1/2, Sand trace, Calcium 140, KCL 3%. BGG 100, Max 240. WOB 48M, RPM 65, SPM 94, PP 2200#. Survey MD 10,434' inclination and drift 11 deg S 86 deg E, Closure 1513' S 87 deg E. DMC \$2884; CMC \$20,298; DC \$11,523; CC \$622,435

2-7-95

Drilling 10,838' shale and lime. Made 158' in 19-1/4 hours, 8.2'/hr. MW 10.3, Vis 36, PV 5, YP 8, Gels 5/4, pH 10, WL 15, FC film, Cl 146M, Solids 1-3/4%, Sand trace, Calcium 140, KCL 3%. BGG 125, Max 700, TG 850. WOB 48M, RPM 65, SPM 94, PP 2200#. Made 20 stand short trip. Survey MD 10,718', inclination drift 7.25 deg S 80' E; Closure 1558' S 87 deg E. DMC \$1795; CMC \$19,209; DC \$10,675; CC \$633,110

2-8-95

TD 10,854' shale and lime. Reaming. Made 16' in 4-1/2 hours, 3.8'/hr. MW 10.3, Vis 36, PV 6, YP 7, Gels 5/3, pH 10, WL 10, FC film, Cl 175M, Solids 2%, Calcium 140, KCL 3%. BGG 250, Max 620, TG 625. SPM 100, PP 1350#. Circulated and POOH. Changed BHA. WIH. Slip and cut drilling line. Stuck pipe at 7342' and jarred free. Reamed tight hole from 7260-7450'. DMC \$4594; CMC \$23,803; DC \$21,775; CC \$654,885

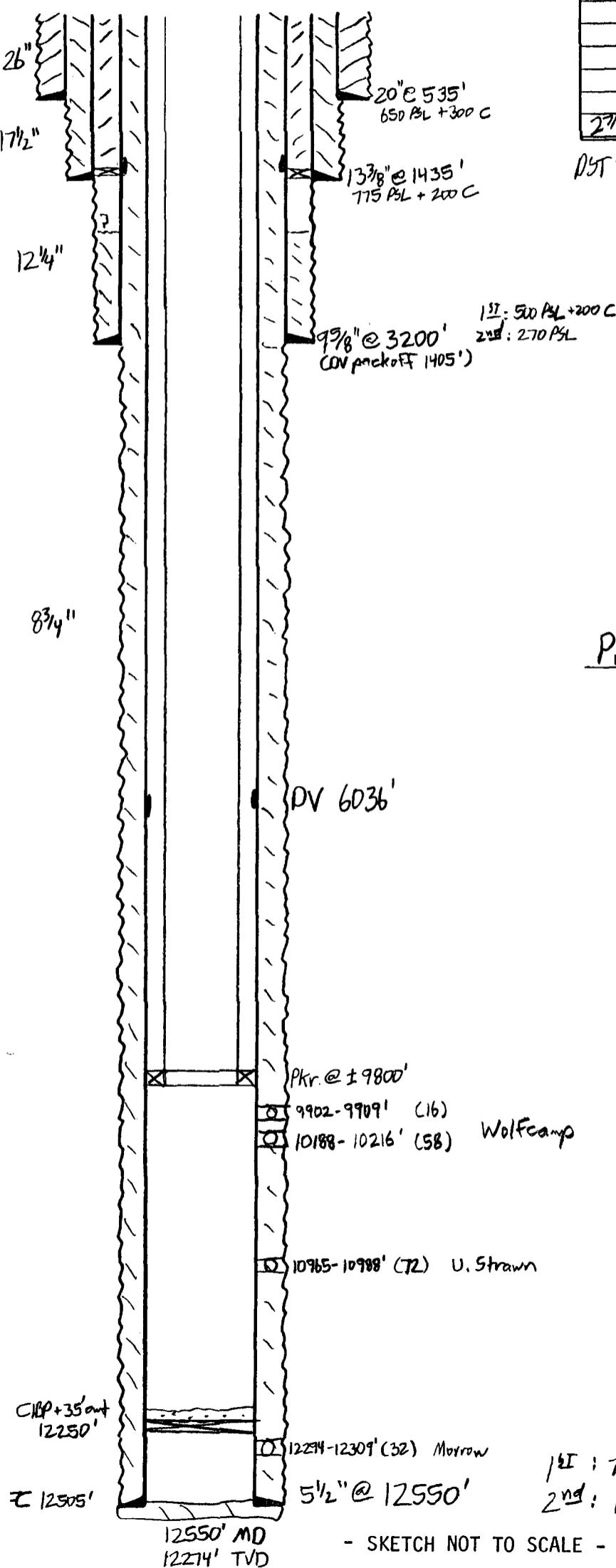
2-9-95

Drilling 11,017' lime and shale. Made 163' in 19-1/2 hours, 8.3'/hr. MW 10.2, Vis 35, PV 6, YP 7, Gels 5/3, pH 10, WL 10, FC film, Cl 175M, Solids 2, Calcium 140, KCL 3%. BGG 140, Max 300,

WELL NAME: Zinnia Fed. Unit 1LOCATION: 1980' FNL, 910' FWL (Surface), 2114' FNL, 2563' FWL (BH) 27-20S-29E Eddy NMGL: 3273' ZERO: 27 AGL:       KB: 330 ORIG. DRLG./COMPL. DATE:       COMMENTS:       FIELD AREA: Burton Flat

CASING PROGRAM:

SIZE/WT./GR./CONN.	DEPTH SET
2D 94 J55 STC	535'
13 1/8 51.5? J55 STC	1435'
9 5/8 40 J55 STC	3200'
5"2 20 S95 LTC	1156'
2D N80 LTC	3487'
17 N80 LTC	6862'
17 L80 LTC	7633'
2D N80 LTC	12550'
2 7/8 6.5 N80 EUE	

Proposed Wellbore SchematicREVISED: HBCollins

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



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TREASURER

July 10, 1995

Marathon Oil Company  
P. O. Box 552  
Midland, TX 79702

Ladies and Gentlemen:

Yates Petroleum Corporation has submitted an application to the NMOCD to downhole commingle the Strawn and Wolfcamp formations in the Zinnia Federal Unit #1 located in E of Section 27-T20S-R29E. This letter 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) 748-4182.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins  
Engineer

BC/th

Enclosures