

AMEND DHC

6/3/99

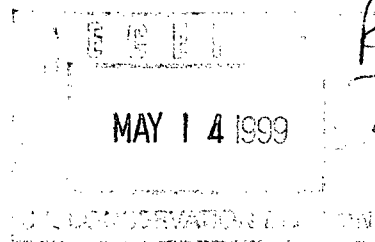


2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

[713] 296-6000

May 11, 1999

Mr. David Catanach
State of New Mexico
Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87505-6429



RE: Application to Amend Downhole Commingle Permits
State "C" Tract 12 Well Nos. #3, #4, and #7
State "C" Tract 13 Well No. #5
State "CK" Well No. #3
Eunice Area
Lea County, New Mexico

Dear Sir:

Apache Corporation is proposing to amend the downhole commingling permits on the above five wells. We are requesting to commingle these zones based on the results from our State "C" Tract 13 #6Y. By performing a workover on the existing perfs and adding the Blinbry perfs in our State "C" Tract 12 #6Y, production increased by 50%. Apache expects to have the same response on the above referenced wells. Commingling production will enhance the economic operations of these wells.

Previous studies show that the produced fluids from these zones should be compatible and commingling these fluids should not result in precipitation, which might damage the reservoir. All zones to be commingled in the above referenced wells have common ownership. Apache is basing its allocation percentages on past, current, and anticipated production volumes by using test performed on your State "C" Tract 12 leases, which has test from each zone we asking to commingle (See Attached Allocation Table).

To support our application we have attached the following:

- 1) Forms 107A for each well
- 2) Allocation Percentage Table
- 3) Well Test Reports
- 4) Forms C-102 for each well
- 5) Yearly production and curve for each well
- 6) Map with half-mile radius for each well
- 7) Copy of Letter & Certified notice sent to each Surface owner and Offset Operator.

Should you have any questions about this application, please contact Frances Byers at (713) 296-6361.

Sincerely,
Apache Corporation

A handwritten signature in cursive script that reads "Frances M. Byers".

Frances M. Byers
Sr. Engineer Tech

Attachments

ALLOCATION PERCENTAGE TABLE

<u>Well Name</u>	<u>Test</u>	<u>Oil %</u>	<u>Gas%</u>
State C Tract 12 #3			
Skelly Penrose	10 BOPD x 3 BWPD x 20 MCFD	36%	26%
Bliebry	1 BOPD x 1 BWPD x 15 MCFD	4%	19%
Tubb	2 BOPD x 1 BWPD x 41 MCFD	7%	53%
Drinkard	<u>15 BOPD x 1 BWPD x 10 MCFD</u>	53%	2%
TOTAL	28 BOPD x 6 BWPD x 78 MCFD		
State C Tract 12 #4			
Paddock	25 BOPD x 87 BWPD x 9 MCFD	35%	27%
Bliebry	11 BOPD x 3 BWPD x 90 MCFD	15%	38%
Tubb	26 BOPD x 3 BWPD x 90 MCFD	37%	38%
Drinkard	<u>9 BOPD x 22 BWPD x 50 MCFD</u>	13%	21%
TOTAL	13 BOPD x 6 BWPD x 151 MCFD		
State C Tract 13 #5			
Bliebry	1 BOPD x 1 BWPD x 78 MCFD	50%	50%
Tubb	0 BOPD x 0 BWPD x 44 MCFD	0%	28%
Drinkard	<u>1 BOPD x 2 BWPD x 36 MCFD</u>	50%	22%
TOTAL	2 BOPD x 3 BWPD x 158 MCFD		
State C Tract 12 #7			
Bliebry	1 BOPD x 1 BWPD x 44 MCFD	14%	42%
Tubb	5 BOPD x 3 BWPD x 40 MCFD	72%	28%
Drinkard	<u>1 BOPD x 1 BWPD x 20 MCFD</u>	14%	20%
TOTAL	7 BOPD x 5 BWPD x 104 MCFD		
State "CK" #3			
Paddock	25 BOPD x 80 BWPD x 9 MCFD	96%	4%
Bliebry	0 BOPD x 0 BWPD x 70 MCFD	0%	35%
Tubb	0 BOPD x 0 BWPD x 53 MCFD	0%	22%
Drinkard	<u>1 BOPD x 2 BWPD x 30 MCFD</u>	4%	39%
TOTAL	26 BOPD x 82 BWPD x 201 MCFD		

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107A
New 3-12-96

APPROVAL PROCESS:

☐ Administrative
☐ Hearing

EXISTING WELLBORE

☐ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLE

APACHE CORPORATION **2000 POST OAK BLVD. STE 100 - RM 358A** **HOUSTON, TX 77056-4400**
Operator Address
STATE -C- TRACT 12 **3** **E - Sec. 16, T21S, R37E** **LEA**
Lease Well No. Unit Ltr.-Sec-Twp-Rgn County

Spacing Unit Lease Types: (one or more)

☐ Federal ☒ State ☐ Fee

OGRID NO. **000873** Property Code **023113** API No. **30-025-06625**

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	SKELLY PENROSE	BLINEBRY	TUBB/86440 DRINKARD/60240
2. Top and Bottom of Pay Section (Perforations)	3721' - 3774'	5835' - 5975'	6014'-6330' 6476'-6650'
3. Type of production (Oil or Gas)	GAS & OIL	GAS & OIL	GAS & OIL
4. Method of Production (Flowing or Artificial Lift)	AL	AL	FL
5. Bottomhole Pressure	a. (Current) 200	a. 600	a. 600 600
Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current	b. (Original)	b. 600-1000	500-600 500-600
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (°API) or Gas BTU Content	37.7	36.6	37 37
7. Producing or Shut-In?	PROD	SI	NOT COMPLETED SI
Production Marginal? (Yes or No)	Y	Y	Y Y
° If Shut-In, give date and oil/gas/ water rates of last production	Date: Rates:	Date: 06/75 Rates: 1 BOPD, 1 BWPD, 15 MCFPD	Date: 2/2/99 Rates: (ANTICIPATED RATES, ST C #5 TEST) 2 BOPD, 1 BWPD, 41 MCFD (TUBB)
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			(ANTICIPATED RATES, TEST PRIOR TO SI)
° If Producing, give date and oil/gas/ water rates of recent test (within 80 days)	Date: 11/20/98 Rates: 10 BOPD, 3 BWPD, 20 MCFPD	Date: Rates:	Date: 2/77 Rates: 15 BOPD, 1 BWPD, 10 MCFPD (DRINK)
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 36% Gas: 26%	Oil: 4% Gas: 19%	Oil: 14% - 7% Gas: 7% - 12%

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and / or explaining method and providing rate projections or other required data.

10. Are all working, overriding and royalty interests identical in all commingled zones?

If not, have all working, overriding and royalty interests been notified by certified mail?

Have all offset operators been given written notice of the proposed downhole commingling?

11. Will cross-flow occur? ☐ Yes ☒ No

If yes, are fluids compatible, will the formations be undamaged, will any cross-

flow production be recovered and will the allocation formula be reliable.

☒ Yes ☐ No

(If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other?

☒ Yes ☐ No

13. Will the value of production be decreased by commingling? ☐ Yes ☒ No

(If Yes, attach explanation)

14. If this well is on or communitized with state or federal lands, either the Commissioner of Public Lands or the United States

Bureau of Land Management has been notified in writing of this application.

☒ Yes ☐ No

15. NMOC Reference Cases for Rule 303(C) Exceptions:

Order No.s **DHC #16**

16. ATTACHMENTS:

- ° C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- ° Production curve for each zone for at least one year. (If not available, attach explanation.)
- ° For zones with no production history, estimated production rates and supporting data.
- ° Data to support allocation method or formula.
- ° Notification list of all offset operators.
- ° Notification list of working, overriding, and royalty interests for uncommon interest cases.
- ° Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Frances Byers

TITLE **Sr. Engineering Tech**DATE **4/28/99**

TYPE OR PRINT NAME

Frances M. Byers

TELEPHONE NO.

(713) 296-6361

NEW MEXICO OIL CONSERVATION COMMISS. A
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator		Lease <u>STATE C TRACT 12</u>			Well No. <u>3</u>
Unit Letter <u>E</u>	Section <u>16</u>	Township <u>21-S</u>	Range <u>37-E</u>	County <u>LEA</u>	
Actual Footage Location of Well: <u>1980</u> feet from the <u>NORTH</u> line and <u>660</u> feet from the <u>WEST</u> line					
Ground Level Elev. <u>3481 DF</u>	Producing Formation <u>GRAYBURG</u>		Port <u>PENROSE SKELLY GARG</u>	Dedicated Acreage: <u>40</u> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

	CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
	Name _____	
	Position <u>AREA SUPERINTENDENT</u>	
	Company <u>Amoco Production Company</u>	
	Date <u>7-27-72</u>	
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.		
Date Surveyed _____		
Registered Professional Engineer and/or Land Surveyor		
Certificate No. _____		

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

NEW MEXICO OIL CONSERVATION COMMISS. 24
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

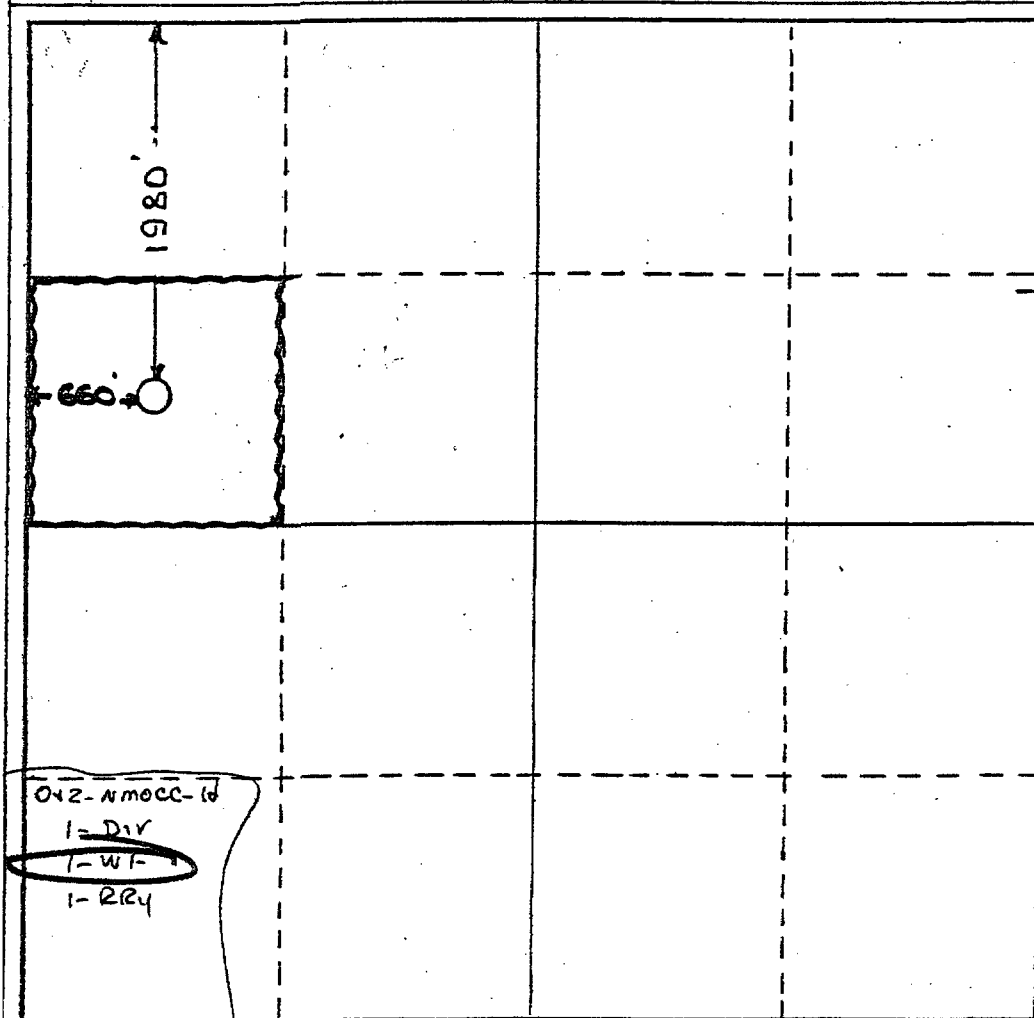
Operator APACHE CORPORATION		Lease STATE C TRACT 12		Well No. 3
Unit Letter E	Section 16	Township 21-S	Range 37-E	County LEA
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line				
Ground Level Elev. 3481 DF	Producing Formation BINEBRY	Depth BLINEBRY	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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Name _____

Position
AREA SUPERINTENDENT

Company
Amoco Production Company

Date

7-27-72

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Date Surveyed _____

Registered Professional Engineer and/or Land Surveyor

Certificate No. _____

0 320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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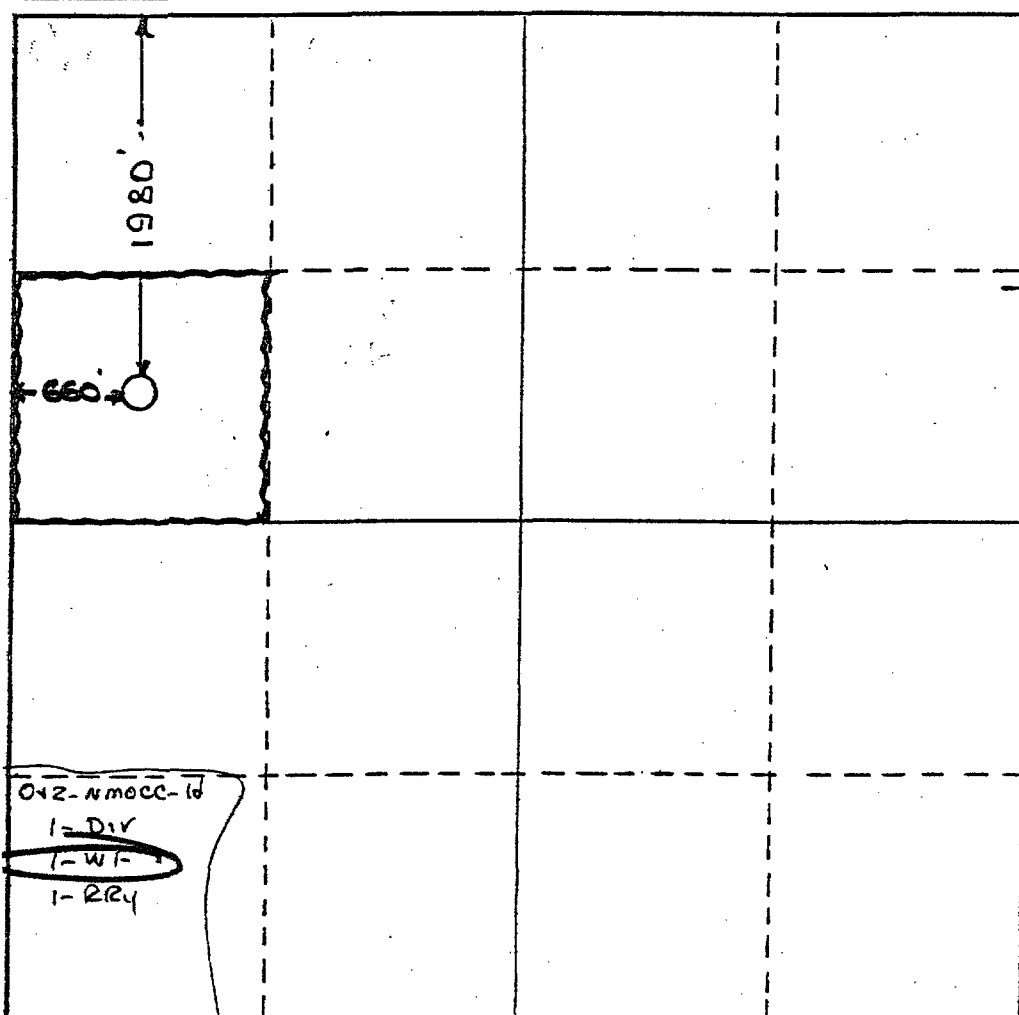
Operator APACHE CORPORATION		Lease STATE C TRACT 12		Well No. 3
Unit Letter E	Section 16	Township 21S	Range 37E	County LEA
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line				
Ground Level Elev. 3481 DF	Producing Formation TUBB		Depth TUBB	Dedicated Acreage: 40 Acres

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Company
Amoco Production Company

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7-27-72

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Date Surveyed _____

Registered Professional Engineer
and/or Land Surveyor

Certificate No. _____

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WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
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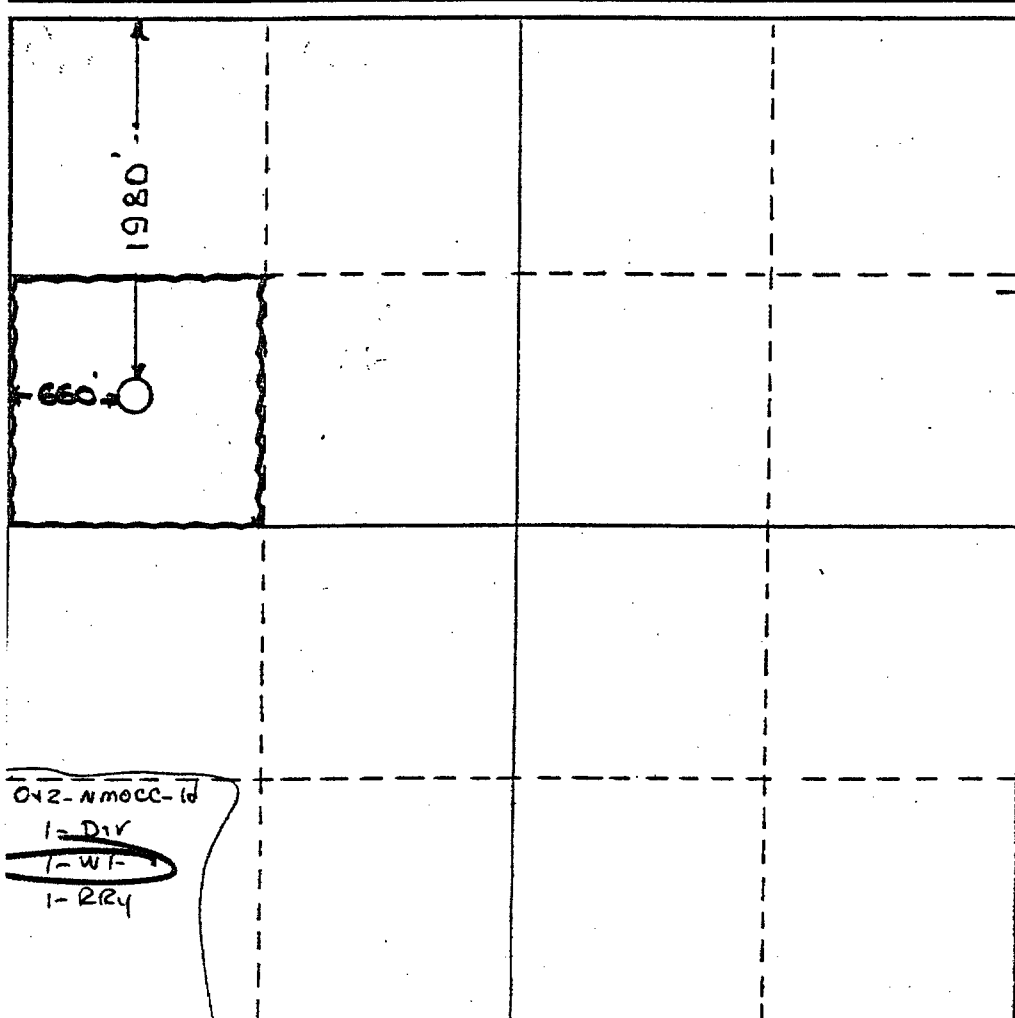
Operator APACHE CORPORATION		Lease STATE C TRACT 12		Well No. 3
Unit Letter E	Section 16	Township 21-S	Range 37-E	County LEA
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line				
Ground Level Elev. 3481 DF	Producing Formation DRINKARD	Pay DRINKARD	Dedicated Acreage: 40 Acres	

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Name _____

Position
AREA SUPERINTENDENT

Company
Amoco Production Company

Date

7-27-72

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Date Surveyed _____

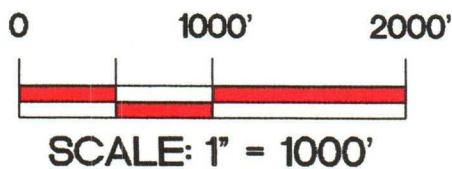
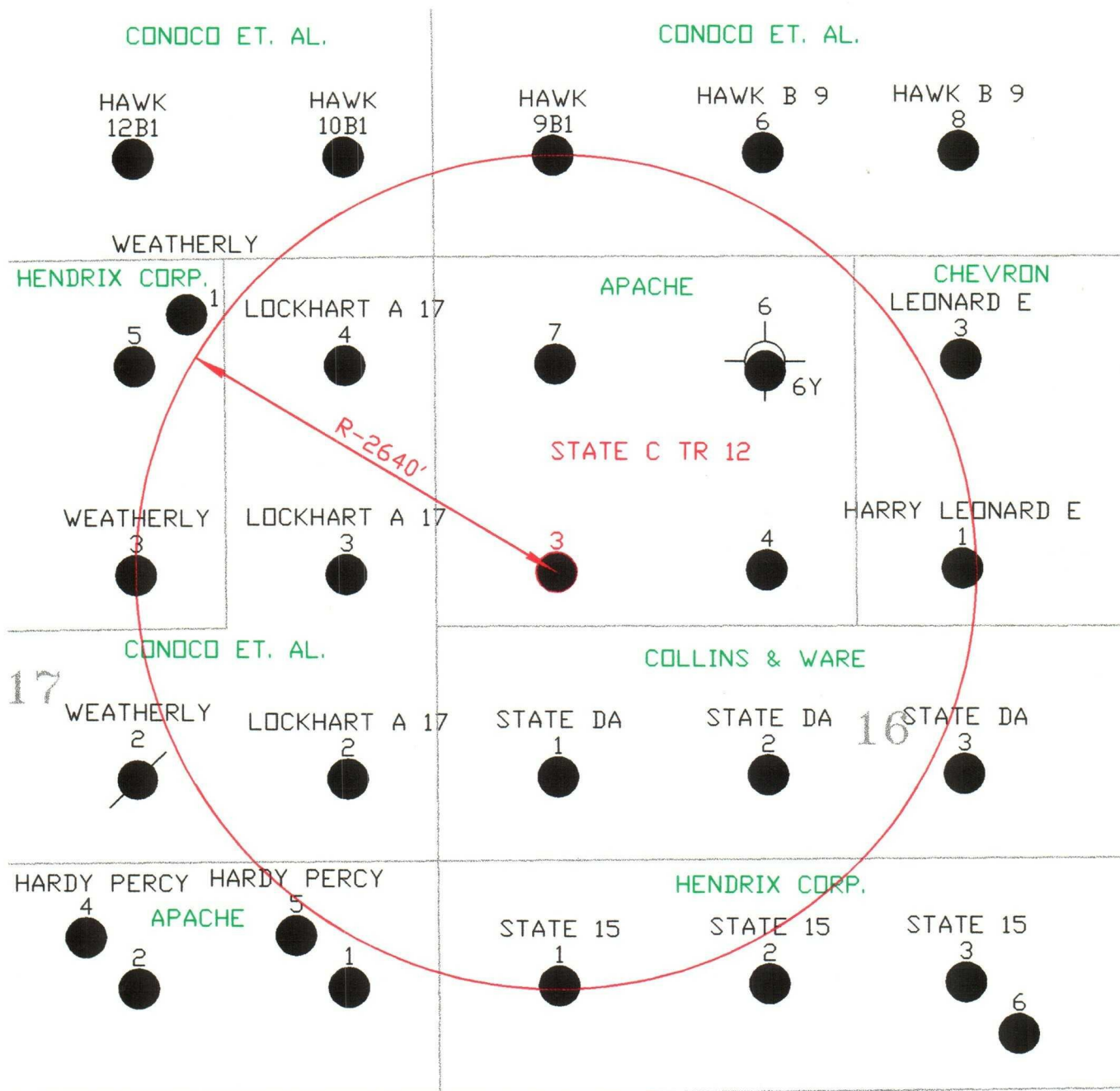
Registered Professional Engineer
and/or Land Surveyor

Certificate No. _____

042-NMOCC-1d
1-DIV
1-WF-
1-RRY

320 640 960 1280 1600 1920 2240 2560 2880 3200 3520 3840 4160 4480 4800 5120 5440 5760 6080 6400

21S 37E



		
EUNICE AREA LEA COUNTY, NEW MEXICO		
LOCATION PLAT STATE C TR 12 #3 SEC.16 T-21-S,R-37-E		
DATE: 05/06/98	REVISED: 00/00/99	GEOLOGIST:
J:\PERM\EUNICE\loc16-3.	DRAFTED BY: HGS	GEOLOGIST:

Dwight's Energydata Inc.
TX - NM Permian
New Mexico Oil

Run Date: 5/13/99
Published 3/99
(#150,025,21S37E16E00GB)

Operator:	AMOCO PRODUCTION CO	First Production Date:	07/72
Well/Lease Name:	STATE C TR 12	Last Production Date:	03/89
Well #:	000003	Cum. Thru L. P. Date Oil:	21,624
Location:	16E 21S 37E	Cum. Thru L. P. Date Gas:	180,821
State:	NM	Total Depth:	6,660
District:	002		
County:	LEA		
Regulatory #:			
API #:	30-025-0662500		
Field:	PENROSE SKELLY (GRAYBURG) GB		
Reservoir:	GRAYBURG		
Basin:	PERMIAN BASIN		
Gas Gatherer:	WARRE		
Liquid Gatherer:	SCURP		
Status Date:			
Status:	INA		

Year	Oil Prod BBLs	Gas Prod MCF	Water BBLs	# of Wells	Days On	Allowables
1972	2,216	6,784	514	1		
1973	3,491	8,456	917	1		
1974	3,043	27,403	948	1		
1975	2,204	11,366	421	1		
1976	1,554	18,965	363	1		
1977	1,104	3,165	410	1		
1978	938	1,840	356	1		
1979	1,061	9,308	363	1		
1980	947	1,721	365	1		
1981	718	468	425	1		
1982	628		355	1	315	
1983	602	15,554	454	1	324	
1984	850	19,636	771	1	304	
1985	802	17,782	802	1	357	
1986	587	11,867	438	1	273	
1987	573	19,374	629	1	341	
1988	281	7,132	192	1	145	
1989	25			1		

Date MO/YR	Oil Prod BBLs	BBLs /Day	Cum. Oil Prod. BBLs	Gas Prod MCF	Cum. Gas MCF	GOR SCF/BBLs	Water	% Water	# of Wells	Days On	Allowables
01/86	65	2	20,223	1,117	143,565	17,185	65	50.00	1	31	
02/86	30	10	20,253	145	143,710	4,833	30	50.00	1	3	
03/86	1	0	20,254	0	143,710	0	0	0.00	1	0	
04/86	0	0	20,254	0	143,710		0		1	0	
05/86	66	2	20,320	1,163	144,873	17,621	40	37.74	1	25	
06/86	137	4	20,457	1,457	146,330	10,635	91	39.91	1	30	
07/86	65	2	20,522	1,433	147,763	22,046	33	33.67	1	31	
08/86	89	2	20,611	1,568	149,331	17,618	45	33.58	1	31	
09/86	14	0	20,625	1,254	150,585	89,571	14	50.00	1	30	
10/86	42	1	20,667	902	151,487	21,476	42	50.00	1	31	
11/86	42	1	20,709	1,110	152,597	26,429	42	50.00	1	30	
12/86	36	1	20,745	1,718	154,315	47,722	36	50.00	1	31	
Totals	587			11,867			438			273	
01/87	22	0	20,767	1,464	155,779	66,545	22	50.00	1	31	
02/87	0	0	20,767	1,464	157,243		28	100.00	1	28	
03/87	0	0	20,767	1,333	158,576		31	100.00	1	31	
04/87	41	6	20,808	274	158,850	6,683	82	66.67	1	6	
05/87	85	2	20,893	1,468	160,318	17,271	85	50.00	1	31	
06/87	62	2	20,955	1,353	161,671	21,823	62	50.00	1	30	
07/87	64	2	21,019	1,350	163,021	21,094	64	50.00	1	31	
08/87	80	2	21,099	0	163,021	0	80	50.00	1	31	
09/87	59	1	21,158	1,296	164,317	21,966	59	50.00	1	30	
10/87	60	1	21,218	2,060	166,377	34,333	60	50.00	1	31	
11/87	38	1	21,256	3,030	169,407	79,737	25	39.68	1	30	
12/87	62	2	21,318	4,282	173,689	69,065	31	33.33	1	31	
Totals	573			19,374			629			341	
01/88	61	1	21,379	1,958	175,647	32,098	31	33.70	1	31	
02/88	58	2	21,437	1,726	177,373	29,759	29	33.33	1	29	
03/88	59	1	21,496	1,305	178,678	22,119	59	50.00	1	31	
04/88	60	2	21,556	1,555	180,233	25,917	30	33.33	1	30	
05/88	43	1	21,599	588	180,821	13,674	43	50.00	1	24	
06/88	0	0	21,599	0	180,821		0		0	0	
07/88	0	0	21,599	0	180,821		0		0	0	
08/88	0	0	21,599	0	180,821		0		0	0	
09/88	0	0	21,599	0	180,821		0		0	0	
10/88	0	0	21,599	0	180,821		0		0	0	
11/88	0	0	21,599	0	180,821		0		0	0	
12/88	0	0	21,599	0	180,821		0		0	0	
Totals	281			7,132			192			145	
01/89	0	0	21,599						0		
02/89	0	0	21,599						0		
03/89	25	1	21,624						1		
04/89	0	0	21,624						0		
05/89	0	0	21,624						0		
06/89	0	0	21,624						0		
07/89	0	0	21,624						0		
08/89	0	0	21,624						0		
09/89	0	0	21,624						0		
10/89	0	0	21,624						0		
11/89	0	0	21,624						0		
12/89	0	0	21,624						0		
Totals	25										

Midland, TX 79701-5070

Mr. J. Miller
Conoco
10 Desta Dr.
Suite 100W
Midland, TX 79705-4500

Oxy
P. O. Box 4662
Midland, TX 79702

Dwights

Lease: STATE C TR 12 (000003)

05/13/99

Retrieval Code: 150,025,21S37E16E00GB



Gas (mcf/mo)

County: LEA

F.P. Date: 07/72

Oil (bbl/mo)

Field: PENROSE SKELLY (GRAYBU)

Oil Cum: 21.62 mbbl

Reservoir: GRAYBURG

Gas Cum: 180.8 mmcf

Operator: AMOCO PRODUCTION C

Location: 16E 21S 37E



2000 POST OAK BOULEVARD / SUITE 100 / HOUSTON, TEXAS 77056-4400

(713) 296-6000

May 7, 1999

(SEE ATTACHED LIST)

RE: Application to Amend Downhole Commingle Permits

State "C" Tract 12 Well Nos. #3, #4, and #7

State "C" Tract 13 Well No. #5

State "CK" Well No. #3

Eunice Area

Lea County, New Mexico

Dear Sir:

Apache Corporation, as operator of the subject wells, is proposing to amend the downhole commingling permits on the above five wells. Commingling production will enhance the economic operations of these wells. We are requesting to add one or more zones to the existing permits as indicated below:

State C Tract 12 #3	DHC #16 Blinebry & Drinkard	Adding Tubb & Skelly Penrose
State C Tract 12 #4	DHC #434 Tubb & Drinkard	Adding Blinebry & Paddock
State C Tract 13 #5	Applying For DHC	Blinebry, Tubb & Drinkard
State C Tract 12 #7	DHC #17 Blinebry & Drinkard	Adding Tubb
State CK #3	DHC #845 Blinebry & Paddock	Adding Tubb & Drinkard

Should you have in questions concerning this application, please contact Frances Byers at (713) 296-6361.

Sincerely,

APACHE CORPORATION

A handwritten signature in cursive script that reads "Frances M. Byers".

Frances M. Byers
Sr. Engineering Tech

Attachments

SURFACE OWNER & OFFSET OPERATORS LIST FOR:

State CK #3

Surface Owner

Tim Walters
C/O Nations Bank
P. O. Box 270
Midland, TX 79702

Offset Operators

Mr. Craig Wright
Chevron USA
P. O. Box 1150
Midland, TX 79702

BC Oil et al
P. O. Box 20820
Midland, TX 79710-0820

Parker & Parsley
P. O. Box 3178
Midland, TX 79702-3178

Campbell & Hedrick
2003 Country Club Dr.
Midland, TX 79701-5718

Texaco
205 E. Bender Blvd.
Hobbs, NM 88240

SUPPORT FOR BLINEBRY-TUBB-DRINKARD ZONES

Z 11b 152 482

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Mr. Craig Wright

Chevron USA

P. O. Box 1150

Midland, TX 79702

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 11b 150 83b

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Mr. Ron Westbrook

John Hendrix

P. O. Box 3040

Midland, TX 79702-3040

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 11b 150 835

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Tim Walters

C/O Nations Bank

P. O. Box 270

Midland, TX 79702

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 11b 152 485

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Mr. J. Miller

Conoco

10 Desta Dr.

Suite 100W

Midland, TX 79705-4500

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 11b 152 484

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Oxy

P. O. Box 4662

Midland, TX 79702

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 11b 152 483

US Postal Service

Receipt for Certified Mail

No Insurance Coverage Provided.

Do not use for International Mail (See reverse)

Mr. Erick Nelson

Collins & Ware

508 W. Wall Ave

Suite 1200

Midland, TX 79701-5076

PS Form 3800, April 1995

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

Z 116 152 467

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Parker & Parsley
P. O. Box 3178
Midland, TX 79702-3178

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Z 116 151 077

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Texaco
205 E. Bender Blvd.
Hobbs, NM 88240

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Z 116 152 486

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

BC Oil et al
P. O. Box 20820
Midland, TX 79710-0820

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Z 116 151 076

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail (See reverse)

Campbell & Hedrick
2003 Country Club Dr.
Midland, TX 79701-5718

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	

PS Form 3800, April 1995

Friday, February 10, 1995 Through Monday, May 10, 1999

Pressure Base : None

1.

..

Rounded (y/n) : No

: R 013

Dates		Completion Name	Meas		24 Hour Volumes				Ratios				PPM		Obsrvd	
Test	Eff		Mthd	Type	Oil	Gas	Water	Lift	Emul	GOR	WOR	GFR	Chl	Iron	Grv	Tmp
11/01/97	11/01/97	STATE C TR 13 #05;BLINEBRY		24.00	.20	75.00	1.00	.00	.00	375,000.000	5.000	62,500.000			.00	A
03/01/98	03/01/98	STATE C TR 13 #05;BLINEBRY		24.00	1.00	80.00	.00	.00	.00	80,000.000	0.000	80,000.000			.00	A
02/02/99	02/02/99	STATE C TR 13 #05;BLINEBRY		24.00	1.00	78.00	3.00	.00	.00	78,000.000	3.000	19,500.000			.00	A
Avg-- STATE C TR 13 #05;BLINEBRY					.73	77.67	1.33	.00	.00	0.000	0.000	0.000			.00	A
11/01/97	11/01/97	STATE C TR 13 #05;TUBB		24.00	.00	49.00	.00	.00	.00	0.000	0.000	0.000			.00	M
03/01/98	03/01/98	STATE C TR 13 #05;TUBB		24.00	.00	48.00	.00	.00	.00	0.000	0.000	0.000			.00	A
02/02/99	02/02/99	STATE C TR 13 #05;TUBB		24.00	.00	36.00	.00	.00	.00	0.000	0.000	0.000			.00	A
Avg-- STATE C TR 13 #05;TUBB					.00	44.33	.00	.00	.00	0.000	0.000	0.000			.00	A

WellTest History (OGW)

Friday, February 10, 1995 Through Monday, May 10, 1999

Select By : Completions

Pressure Base : None

Page No : 1

Units : A.P.I.

Print Date : 5/10/99, 9:54:11 AM

Sort By : None selected in Report Options.

Rounded (v/n) : No

Report Number : R 013

Dates		Completion Name	Meas Mthd Type Hrs	24 Hour Volumes				Ratios				PPM		Obsr'd		Pu
Test	Eff			Oil	Gas	Water	Lift	Emul	GOR	WOR	GFR	Chl	Iron	Grv	Tmp	
11/01/97	11/01/97	STATE C TR 12 #7:BLINEBRY	24.00	1.50	48.00	1.00	.00	.00	32,000.000	0.667	19,200.000			.00		A
03/01/98	03/01/98	STATE C TR 12 #7:BLINEBRY	24.00	1.00	40.00	.00	.00	.00	40,000.000	0.000	40,000.000			.00		A
Avg-- STATE C TR 12 #7:BLINEBRY				1.25	44.00	.50	.00									
11/01/97	11/01/97	STATE C TR 12 #7:DRINKARD	24.00	.70	20.60	.10	.00	.00	29,428.571	0.143	25,750.000			.00		A

WellTest History (OGW)

Friday, February 10, 1995 Through Monday, May 10, 1999

Select By : Completions

Pressure Base : None

Page No : 1

Units : A.P.I.

Print Date : 5/10/99, 9:58:34 AM

Sort By : None selected in Report Options.

Rounded (v/n) : No

Report Number : R 013

Dates	Test Eff	Completion Name	Meas Mthd Type Hrs	24 Hour Volumes				Lift	Ratios				PPM		Obsvd Grv Trmp	Pu
				Oil	Gas	Water			Emul	GOR	WOR	GFR	Chl	Iron		
03/01/99	03/01/99	STATE C TR 12 #6Y:BLI	24.00	.00	.00	.00		.00	.00	0.000	0.000	0.000			.00	M
03/16/99	03/16/99		24.00	16.00	374.00	14.00		.00	.00	23,375.000	0.875	12,466.667			.00	A
Aves-- 03/1999				8.00	187.00	7.00		.00	.00	11,687.500	0.438	6,233.333			.00	
04/01/99	04/01/99	STATE C TR 12 #6Y:BLI	24.00	11.00	355.50	9.87		.00	.00	32,318.182	0.897	17,034.020			.00	A
Aves-- STATE C TR 12 #6Y:BLI				9.00	243.17	7.96		.00	.00							
11/01/97	11/01/97	STATE C TR 12 #6Y:DRINKARD	24.00	.50	1.00	.00		.00	.00	2,000.000	0.000	2,000.000			.00	A
03/01/98	03/01/98	STATE C TR 12 #6Y:DRINKARD	24.00	.00	250.00	1.00		.00	.00	0.000	0.000	250,000.000			.00	A
10/09/98	10/09/98	STATE C TR 12 #6Y:DRINKARD	15.00	.00	23.52	24.80		.00	.00	0.000	0.000	948.387			.00	A
10/10/98	10/10/98		24.00	1.00	20.70	16.00		.00	.00	20,700.000	16.000	1,217.647			.00	A
10/11/98	10/11/98		24.00	4.50	20.70	22.50		.00	.00	4,600.000	5.000	766.667			.00	A
10/12/98	10/12/98		24.00	7.00	21.60	25.00		.00	.00	3,085.714	3.571	675.000			.00	A
10/13/98	10/13/98		24.00	4.50	21.20	22.50		.00	.00	4,711.111	5.000	785.185			.00	A
10/14/98	10/14/98		24.00	2.00	21.60	20.00		.00	.00	10,800.000	10.000	981.818			.00	A
10/15/98	10/15/98		24.00	2.50	23.00	23.50		.00	.00	9,200.000	9.400	884.615			.00	A
10/16/98	10/16/98		24.00	4.00	24.00	20.00		.00	.00	6,000.000	5.000	1,000.000			.00	A
10/17/98	10/17/98		24.00	.50	25.85	11.00		.00	.00	51,700.000	22.000	2,247.826			.00	A
10/18/98	10/18/98		24.00	.50	26.30	7.50		.00	.00	52,600.000	15.000	3,287.500			.00	A
10/19/98	10/19/98		24.00	.50	28.20	6.50		.00	.00	56,400.000	13.000	4,028.571			.00	A
10/23/98	10/23/98		24.00	.50	28.20	7.50		.00	.00	56,400.000	15.000	3,525.000			.00	A
10/24/98	10/24/98		24.00	.50	30.60	7.50		.00	.00	61,200.000	15.000	3,825.000			.00	A
10/25/98	10/25/98		24.00	.50	31.50	7.50		.00	.00	63,000.000	15.000	3,937.500			.00	A
10/26/98	10/26/98		24.00	2.00	32.00	7.50		.00	.00	16,000.000	3.750	3,368.421			.00	A
10/27/98	10/27/98		24.00	1.00	32.40	5.00		.00	.00	32,400.000	5.000	5,400.000			.00	A
10/28/98	10/28/98		24.00	1.00	32.40	3.50		.00	.00	32,400.000	3.500	7,200.000			.00	A
10/29/98	10/29/98		24.00	1.00	33.40	3.50		.00	.00	33,400.000	3.500	7,422.222			.00	A
10/30/98	10/30/98		24.00	1.00	32.00	5.00		.00	.00	32,000.000	5.000	5,333.333			.00	A
10/31/98	10/31/98		24.00	.50	34.80	6.50		.00	.00	69,600.000	13.000	4,971.429			.00	A
Aves-- 10/1998				1.75	27.20	12.64		.00	.00	30,809.841	9.136	3,090.306			.00	
11/01/98	11/01/98	STATE C TR 12 #6Y:DRINKARD	24.00	.50	34.80	3.00		.00	.00	69,600.000	6.000	9,942.857			.00	A
11/02/98	11/02/98		24.00	.50	35.30	1.50		.00	.00	70,600.000	3.000	17,650.000			.00	A
11/03/98	11/03/98		24.00	.50	35.70	1.50		.00	.00	71,400.000	3.000	17,850.000			.00	A
11/04/98	11/04/98		24.00	.50	35.30	2.00		.00	.00	70,600.000	4.000	14,120.000			.00	A
11/05/98	11/05/98		24.00	.50	36.20	1.50		.00	.00	72,400.000	3.000	18,100.000			.00	A
11/06/98	11/06/98		24.00	.50	36.20	1.50		.00	.00	72,400.000	3.000	18,100.000			.00	A
11/07/98	11/07/98		24.00	.50	36.20	1.50		.00	.00	72,400.000	3.000	18,100.000			.00	A
11/08/98	11/08/98		24.00	.50	36.70	1.50		.00	.00	73,400.000	3.000	18,350.000			.00	A
11/09/98	11/09/98		24.00	35.00	36.70	1.50		.00	.00	1,048.571	0.043	1,005.479			.00	A
11/10/98	11/10/98		24.00	.50	37.10	1.50		.00	.00	74,200.000	3.000	18,550.000			.00	A

WellTest History (OGW)

Friday, February 10, 1995 Through Monday, May 10, 1999

Select By : Completions

Pressure Base : None

Page No : 2

Units : A.P.I.

Print Date : 5/10/99, 9:58:34 AM

Sort By : None selected in Report Options.

Rounded (y/n) : No

Report Number : R 013

Dates	Test Eff	Completion Name	Meas Mthd Type Hrs	24 Hour Volumes					Lift	Ratios				PPM		Obsrvd		Pu
				Oil	Gas	Water				Emul	GOR	WOR	GFR	Chl	Iron	Grv	Tmp	
11/11/98	11/11/98	STATE C TR 12 #6Y:DRINKARD	24.00	.50	37.10	1.50			.00	.00	74,200.000	3.000	18,550.000				.00	A
11/12/98	11/12/98		24.00	.50	36.20	1.50			.00	.00	72,400.000	3.000	18,100.000				.00	A
AVGS-- 11/1998																		
				3.38	36.13	1.67			.00	.00	66,220.714	3.087	15,701.528				.00	
AVGS-- 1998																		
02/02/99	02/02/99	STATE C TR 12 #6Y:DRINKARD	24.00	.50	47.00	.50			.00	.00	94,000.000	1.000	47,000.000				.00	A
03/01/99	03/01/99	STATE C TR 12 #6Y:DRINKARD	24.00	.00	.00	.00			.00	.00	0.000	0.000	0.000				.00	M
03/13/99	03/13/99		24.00	9.00	388.00	144.00			.00	.00	43,111.111	16.000	2,535.948				.00	M
03/15/99	03/15/99		24.00	15.00	467.00	40.00			.00	.00	31,133.333	2.667	8,490.909				.00	M
03/16/99	03/16/99		24.00	.50	47.00	.50			.00	.00	94,000.000	1.000	47,000.000				.00	A
03/17/99	03/17/99		24.00	16.00	473.00	6.00			.00	.00	29,562.500	0.375	21,500.000				.00	M
03/18/99	03/18/99		24.00	14.00	455.00	21.00			.00	.00	32,500.000	1.500	13,000.000				.00	M
03/19/99	03/19/99		24.00	16.00	459.00	12.00			.00	.00	28,687.500	0.750	16,392.857				.00	M
03/20/99	03/20/99		24.00	14.00	441.00	12.00			.00	.00	31,500.000	0.857	16,961.538				.00	M
03/21/99	03/21/99		24.00	13.00	468.00	15.00			.00	.00	36,000.000	1.154	16,714.286				.00	M
03/22/99	03/22/99		24.00	11.00	468.00	6.00			.00	.00	42,545.455	0.545	27,529.412				.00	M
03/23/99	03/23/99		24.00	15.00	468.00	16.00			.00	.00	31,200.000	1.067	15,096.774				.00	M
03/24/99	03/24/99		24.00	11.00	465.00	12.00			.00	.00	42,272.727	1.091	20,217.391				.00	M
03/25/99	03/25/99		24.00	10.00	463.00	13.00			.00	.00	46,300.000	1.300	20,130.435				.00	M
03/26/99	03/26/99		24.00	13.00	462.00	19.00			.00	.00	35,538.462	1.462	14,437.500				.00	M
03/27/99	03/27/99		24.00	10.00	457.00	8.00			.00	.00	45,700.000	0.800	25,388.889				.00	M
03/28/99	03/28/99		24.00	16.00	453.00	15.00			.00	.00	28,312.500	0.938	14,612.903				.00	M
03/29/99	03/29/99		24.00	10.00	453.00	8.00			.00	.00	45,300.000	0.800	25,166.667				.00	M
03/30/99	03/30/99		24.00	10.00	451.00	11.00			.00	.00	45,100.000	1.100	21,476.190				.00	M
03/31/99	03/31/99		24.00	13.00	450.00	11.00			.00	.00	34,615.385	0.846	18,750.000				.00	M
AVGS-- 03/1999																		
				11.39	409.89	19.45			.00	.00	38,072.577	1.803	18,179.037				.00	
04/01/99	04/01/99	STATE C TR 12 #6Y:DRINKARD	24.00	1.00	49.50	.31			.00	.00	49,500.000	0.310	37,786.260				.00	A
04/02/99	04/02/99		24.00	5.00	210.10	5.50			.00	.00	42,020.000	1.100	20,009.524				.00	M
04/03/99	04/03/99		24.00	10.00	446.00	7.00			.00	.00	44,600.000	0.700	26,235.294				.00	M
04/04/99	04/04/99		24.00	10.00	443.00	11.00			.00	.00	44,300.000	1.100	21,095.238				.00	M
04/05/99	04/05/99		24.00	6.00	441.00	5.00			.00	.00	73,500.000	0.833	40,090.909				.00	M
04/07/99	04/07/99		24.00	3.00	440.00	10.00			.00	.00	146,666.667	3.333	33,846.154				.00	M
04/08/99	04/08/99		24.00	10.00	442.00	11.00			.00	.00	44,200.000	1.100	21,047.619				.00	M
AVGS-- 04/1999																		
				6.43	353.09	7.12			.00	.00	63,540.952	1.211	28,587.285				.00	M
AVGS-- 1999																		
				9.70	381.73	15.55			.00	.00								
AVGS-- STATE C TR 12 #6Y:DRINKARD																		
				5.54	189.10	11.37			.00	.00	2,000.000	0.000	2,000.000				.00	A
11/01/97	11/01/97	STATE C TR 12 #6Y:TUBB	24.00	.50	1.00	.00			.00	.00	0.000	0.000	1,064.516				.00	A
10/09/98	10/09/98	STATE C TR 12 #6Y:TUBB	15.00	.00	26.40	24.80			.00	.00	0.000	0.000	1,370.588				.00	A
10/10/98	10/10/98		24.00	1.00	23.30	16.00			.00	.00	23,300.000	16.000	1,370.588				.00	A

Well Test History (OGW)

Friday, February 10, 1995 Through Monday, May 10, 1999

Select By : Completions

Pressure Base : None
Units : A.P.I.

Page No : 3
Print Date : 5/10/99 9:58:34 AM

Sort By : None selected in Report Options.

Rounded (Y/N) : No

Report Number : R 013

Dates		Completion Name	Meas Type Hrs	24 Hour Volumes				Ratios				PPM		Obsr'd Grv Temp		
Test	Efr			Oil	Gas	Water	Lift	Emul	GOR	WOR	GFR	Chl	Iron			
STATE C TR 12 #6Y:TUBB																
10/11/98	10/11/98		24.00	4.50	23.30	22.50	.00	.00	5,177.778	5.000	862.963			.00	A	
10/12/98	10/12/98		24.00	7.00	24.40	25.00	.00	.00	3,485.714	3.571	762.500			.00	A	
10/13/98	10/13/98		24.00	4.50	23.80	22.50	.00	.00	5,288.889	5.000	881.481			.00	A	
10/14/98	10/14/98		24.00	2.00	24.40	20.00	.00	.00	12,200.000	10.000	1,109.091			.00	A	
10/15/98	10/15/98		24.00	2.50	56.00	23.50	.00	.00	22,400.000	9.400	2,153.846			.00	A	
10/16/98	10/16/98		24.00	4.00	27.00	20.00	.00	.00	6,750.000	5.000	1,125.000			.00	A	
10/17/98	10/17/98		24.00	.50	29.15	11.00	.00	.00	58,300.000	22.000	2,534.783			.00	A	
10/18/98	10/18/98		24.00	.50	29.70	7.50	.00	.00	59,400.000	15.000	3,712.500			.00	A	
10/19/98	10/19/98		24.00	.50	31.80	6.50	.00	.00	63,600.000	13.000	4,542.857			.00	A	
10/23/98	10/23/98		24.00	.50	31.80	7.50	.00	.00	63,600.000	15.000	3,975.000			.00	A	
10/24/98	10/24/98		24.00	.50	34.40	7.50	.00	.00	68,800.000	15.000	4,300.000			.00	A	
10/25/98	10/25/98		24.00	.50	35.50	7.50	.00	.00	71,000.000	15.000	4,437.500			.00	A	
10/26/98	10/26/98		24.00	2.00	36.00	7.50	.00	.00	18,000.000	3.750	3,789.474			.00	A	
10/27/98	10/27/98		24.00	1.00	36.60	5.00	.00	.00	36,600.000	5.000	6,100.000			.00	A	
10/28/98	10/28/98		24.00	1.00	36.60	3.50	.00	.00	36,600.000	3.500	8,133.333			.00	A	
10/29/98	10/29/98		24.00	1.00	37.60	3.50	.00	.00	37,600.000	3.500	8,355.556			.00	A	
10/30/98	10/30/98		24.00	1.00	36.00	5.00	.00	.00	36,000.000	5.000	6,000.000			.00	A	
10/31/98	10/31/98		24.00	.50	39.20	6.50	.00	.00	78,400.000	13.000	5,600.000			.00	A	
Avgs-- 10/1998																
11/01/98	11/01/98	STATE C TR 12 #6Y:TUBB	24.00	.50	32.15	12.64	.00	.00	35,325.119	9.136	3,540.549			.00	A	
11/02/98	11/02/98		24.00	.50	39.20	3.00	.00	.00	78,400.000	6.000	11,200.000			.00	A	
11/03/98	11/03/98		24.00	.50	39.70	1.50	.00	.00	79,400.000	3.000	19,850.000			.00	A	
11/04/98	11/04/98		24.00	.50	40.30	1.50	.00	.00	80,600.000	3.000	20,150.000			.00	A	
11/05/98	11/05/98		24.00	.50	39.70	2.00	.00	.00	79,400.000	4.000	15,880.000			.00	A	
11/05/98	11/05/98		24.00	.50	40.80	1.50	.00	.00	81,600.000	3.000	20,400.000			.00	A	
11/06/98	11/06/98		24.00	.50	40.80	1.50	.00	.00	81,600.000	3.000	20,400.000			.00	A	
11/07/98	11/07/98		24.00	.50	41.30	1.50	.00	.00	82,600.000	3.000	20,650.000			.00	A	
11/08/98	11/08/98		24.00	.50	41.30	1.50	.00	.00	82,600.000	3.000	20,650.000			.00	A	
11/09/98	11/09/98		24.00	.50	41.90	1.50	.00	.00	83,800.000	3.000	20,950.000			.00	A	
11/10/98	11/10/98		24.00	.50	41.90	1.50	.00	.00	83,800.000	3.000	20,950.000			.00	A	
11/11/98	11/11/98		24.00	.50	40.80	1.50	.00	.00	81,600.000	3.000	20,400.000			.00	A	
11/12/98	11/12/98		24.00	.50	40.71	1.67	.00	.00	81,416.667	3.333	19,323.333			.00	A	
Avgs-- 11/1998																
1998																
02/02/99	02/02/99	STATE C TR 12 #6Y:TUBB	24.00	.50	53.00	5.50	.00	.00	106,000.000	11.000	8,833.333			.00	A	
03/16/99	03/16/99	STATE C TR 12 #6Y:TUBB	24.00	.50	53.00	.50	.00	.00	106,000.000	1.000	53,000.000			.00	A	
03/31/99	03/31/99		24.00	.00	.00	.00	.00	.00	0.000	0.000	0.000			.00	M	
Avgs-- 03/1999																
04/01/99	04/01/99	STATE C TR 12 #6Y:TUBB	24.00	.25	26.50	.25	.00	.00	53,000.000	0.500	26,500.000			.00	A	
04/02/99	04/02/99		24.00	1.00	45.00	.32	.00	.00	45,000.000	0.320	34,090.909			.00	A	
Avgs-- 04/1999																
04/02/99	04/02/99		24.00	5.00	236.90	5.50	.00	.00	47,380.000	1.100	22,561.905			.00	M	