				,
DATE IN 127/98	SUSPENSE //6/98	ENGINEER DC	LOGGED	TYPE DHC
				

NEW MEXICO OIL CONSERVATION DIVISION

1811

- Engineering Bureau -

-		ADMINISTRATIVE APPLICATION COVERSHEET
	HIS COVERSHE	ET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS
Application A	DHC-Dow [PC-Po	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [DLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [Iffed Enhanced Oil Recovery Certification] [PPR-Positive Production Response]
[1] TYI	PE OF A	PPLICATION - Check Those Which Apply for [A] Location - Spacing Unit - Directional Drilling NSL NSP DD DSD JAN 27 1998
	Check [B]	Cone Only for [B] and [C] Commingling - Storage - Measurement DHC DCTB DPLC DPC DOLS DOLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR
[2] NO	TIFICAT	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply
	[A]	☐ Working, Royalty or Overriding Royalty Interest Owners
	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	☐ Application is One Which Requires Published Legal Notice
	[D]	□ Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E]	☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

Regulations of the Oil approval is accurate an RI, ORRI) is common	Conservation Division. Furth d complete to the best of my k	er, I assert that the attached application nowledge and where applicable, verify on of data, information or notification is	for administrative that all interest (WI
Peggy Bradfield Print or Type Name	Note: Statement must be completed Signature	by an individual with supervisory capacity. Regulatory/Compliance Administrator Title	- 1/24/95 - Date

DISTRICT !

P.O. Box 1980, Hobbs, NM 88241-1980

811 South First St., Artesia, NM 88210-2835

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96

X__ YES ___ NO

OIL CONSERVATION DIVISION APPROVAL PROCESS :

2040 S. Pacheco Santa Fe, New Mexico 87505-6429

X Administrative ___Hearing

DISTRICT II

UISTRICT III 1000 RIo Brazos Rd, Aztec, NM 874101693 APPLICATION FOR DOWNHOLE COMMINGLING EXISTING WELLBORE

oarator Culpepper Martin		N-20-32N-12W	San Juan
GRID NO14538 Property Co		c - Twp - Rge 30-045-12202	County Spacing Unit Lease Types: (check 1 or more) Federal, State, FeeX
he following facts are ubmitted in support of lownhole commingling:	Upper Zone	Intermedi Zone	Lower Zone
I. Pool Name and Pool Code	Mesa Verde- 72319		Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4628'-4734'		6886'-7000'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 745 psi (see attachment)		a. 1070 psi (see attachment) (offset analogy - Culpepper Martin #4)
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or	(Original) b. 1291 psi (see attachment)		b. 2336 psi (see attachment) (offset analogy - Culpepper Martin #4)
6. Oil Gravity ([°] API) or Gas BTU Content	BTU 1204		BTU 1180
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production	Date: N/A Rates:		Date: N/A Rates:
Note: For new zones with no production nistory, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 10/97 Rates: 73 mcfd 0.0 bopd		Date: 10/97 Rates: 35 mcfd 0.0 bopd
B. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion		Will be supplied upon completion.
D. Are all working, overriding, an If not, have all working, overr Have all offset operators beet. 1. Will cross-flow occur? _X_\flowed production be recoved. 2. Are all produced fluids from a graph of the walue of production b this well is on, or communication Bureau of Land Manage.	nd royalty interests identical iding, and royalty interests in given written notice of the Yes No If yes, are fluid red, and will the allocation full commingled zones compare decreased by commingling intized with, state or federal ement has been notified in wards.	Il in all commingled zobeen notified by cert proposed downhole secondarible, will the formula be reliabletible with each other g?Yes _X_ No lands, either the Criting of this application.	ified mail? Yes No commingling? X_Yes No a formations not be damaged, will any cr. X_ Yes No (If No, attach explanat ? X_ Yes No
6. ATTACHMENTS: * C-102 for each zone * Production curve for * For zones with no p * Data to support allo * Notification list of a	e to be commingled showing or each zone for at least one roduction history, estimated ocation method or formula	its spacing unit and year. (If not availab I production rates an	acreage dedication. le, attach explanation.) d supporting data.
	1	nd complete to the	e best of my knowledge and belief.
IGNATURE Mary Ell	en Sutul TITI	_EProduction Er	ngineerDATE12-23-97

__TELEPHONE NO. (_505_) __326-9700___

TYPE OR PRINT NAME___Mary Ellen Lutey____

MEXICO OIL CONSERVATION COMMISSION

PLI Location and Acreage Dedication Plat

		Mell Focation and We	creage Dedication Pl	-al	
ection A.				Date July 7	1959
		Company of the contract of the	No. of the second secon	The same of the sa	THE WATER HEAT
perator _	Autec 011 & Cas	Company	Lease Culpept	er-Martin	Charles And Charles
	19 Wallhit Let	er F & Section	20 Townsh	ip 30 K	ngo 12.V
ocated	900 Feet	from Simula Line, L. Elevation	Dedicated	Acresce 3	A NAME OF TAXABLE PARTY.
ame of Pro	ducing Formation	Point Lookout	Pool Pool	Blanco-Masaver	THE WAY A
Is th	he Operator the on	ly owner in the dedic	cated acreage outlin	ed on the plat	
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L II LI	ne answer to quest	ion one is "no," have t	the interests of arr	THE ORDERS CHE	#10080110816
WINE DV CC		reement or otherwise?	The state of the s	- St. State CHAIGHTON AND AND AND AND AND AND AND AND AND AN	建筑线
If th	he answer to quest	ion two is "no. " list	all the owners and t	heir respective	mterests be
			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		فيدح تعاد ود
	Owner		Î,	and Description	
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NE EXICO OIL CONSERVATION COMMISSION 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 Well No. Operator Unit Letter Actual Footage Location of W feet from the Producing Fo Dedicated Acreage: 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? 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. (Original Signed) Howard J. Speer Name 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. Ò Date Surveyed Registered Professional Engineer and/or Land Surveyor Certificate No.

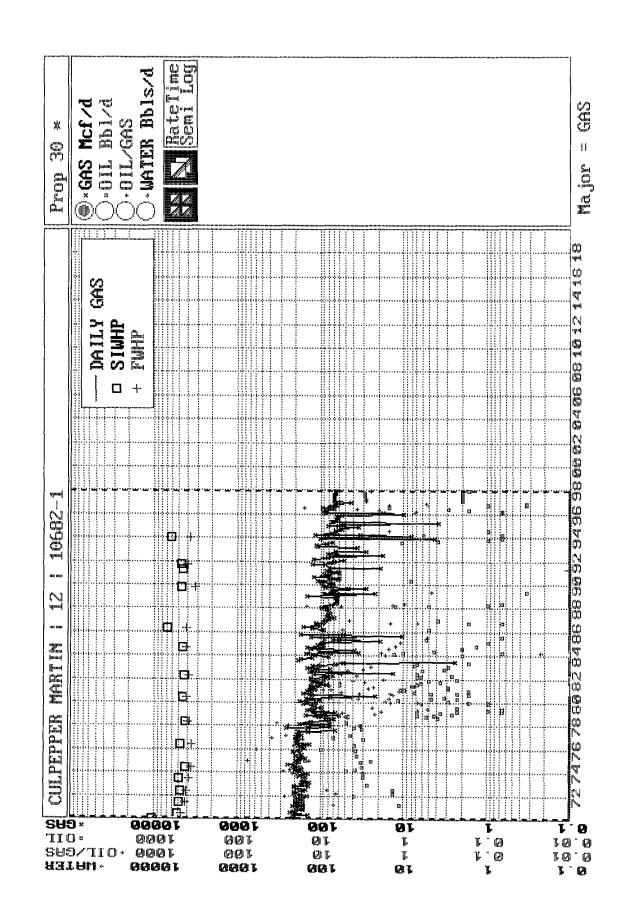
660

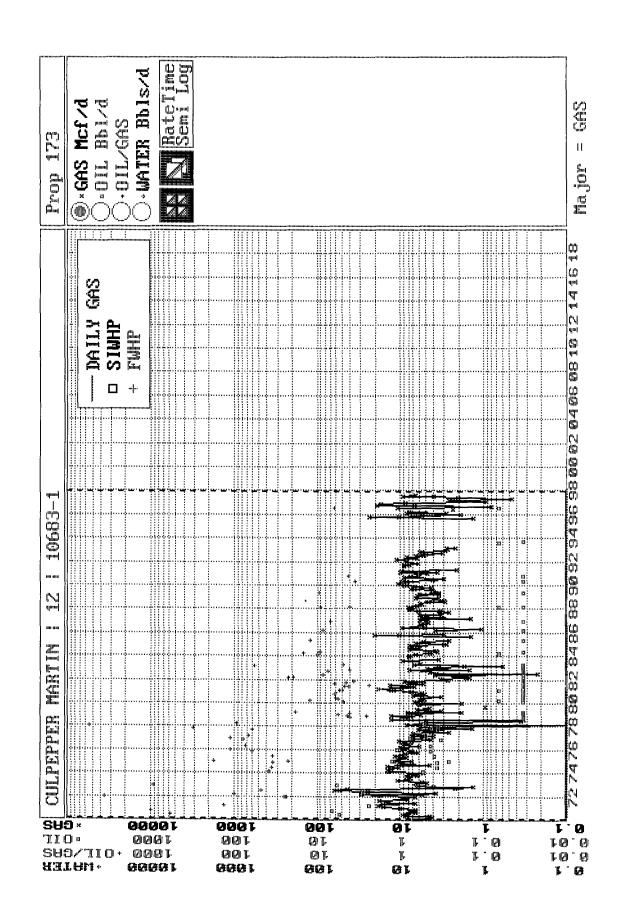
1320 1650

1980, 2310

2000

1000





Page No.: 3
Print Time: Wed Jun 25 14:43:34 1997
Property ID: 2612
Property Name: CULPEPPER MARTIN | 12 | 10682-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

DATE	CUM_OIL- Bbl	CUM_GAS Mcf	M_SIW <u>HP</u> Psi
08/27/59 06/18/70 05/16/71 05/17/72 06/17/73 06/01/74 06/17/76 05/02/78 06/07/80 04/07/82 08/22/84 04/23/86 10/26/89 04/03/91 09/10/91		0 780741 842609 909705 974894 1038630 1165682 1275166 1360755 1436231 1514478 1556373 1659760 1705037 1711784	1062.0 531.0 505.0 486.0 502.0 431.0 495.0 429.0 452.0 433.0 460.0 709.0 467.0 460.0
12/29/93		1754753	622.0

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.57
%CO2	0.77
%H2S	0
DIAMETER (IN)	4.6
DEPTH (FT)	6850
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	622
BOTTOMHOLE PRESSURE (PSIA)	744.8

CULPEPPER MARTIN #12 MESAVERDE - (CURRENT)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.71
COND. OR MISC. (C/M)	C
%N2	0.57
%CO2	0.77
%H2S	0
DIAMETER (IN)	1.6
DEPTH (FT)	6850
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1062
BOTTOMHOLE PRESSURE (PSIA)	1290.6

CULPEPPER MARTIN #12 MESAVERDE - (ORIGINAL)

Page No.: 1

Print Time: Wed Nov 05 09:10:24 1997
Property ID: 234
Property Name: CULPEPPER MARTIN | 4 | 12969S-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

DATE	CUM_OIL- Bbl	CUM_GAS Mcf	M_SIWHP Psi
00/15/83		843217	0.0
03/27/65		0	1953.0
05/18/70		451664	1067.0
04/18/71		501232	1058.0
08/18/72		561965	1059.0
04/18/73		591709	1020.0
08/02/75		673627	981.0
05/03/77		725445	813.0
06/01/79		761778	884.0
07/23/81		802509	796.0
11/08/82		840584	492.0
06/24/83		851982	630.0
07/25/85		892695	480.0
04/19/88		912201	522.0
09/05/90		931458	910.0

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	С
%N2	0.37
%CO2	1.71
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6394
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	910
BOTTOMHOLE PRESSURE (PSIA)	1069.8

CULPEPPER MARTIN #12 DAKOTA - (CURRENT)

FLOWING AND STATIC BHP CULLENDER AND SMITH METHOD

VERSION 1.0 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.37
%CO2	1.71
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6394
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1953
BOTTOMHOLE PRESSURE (PSIA)	2335.6

CULPEPPER MARTIN #12 DAKOTA - (ORIGINAL)

Package Preparation Volume Data

DPNo; 10682 CUEPEPPER MARTIN: 12 Form: MV

Supt: 58 RICK MUNCRIEF

FF: 331 NOEL ROGERS

MS: 341 JACK BIRCHFIELD

Pipeline: WFS

12 Mo Avg

Plunger: No

0.0

Dual: Yes

Compressor:

No

Ownership (No Trust)				Prior Year			Current Year		
	Gas	<u>Oil</u>				Days			<u>Days</u>
GWI: 2	25.0000%	25.0000%		MCF/M	BOPM	<u>On</u>	MCF/M	BOPM	<u>On</u>
GNI: 2	21.8750%	21.8750%	Jan	552	0.0	30	0	0.0	31
-			Feb	2,777	2.0	15.4	0	0.0	28
Volumes			Mar	2,909	2.0	19.7	6	0.0	31
(Days On)	MCF	BOPD	Apr	2,599	5.0	30	0	0.0	30
7 Day Avg	71	0.0	May	2,506	9.0	31	2,012	0.0	31
30 Day Avg	73	0.0	Jun	2,127	0.0	30	3,137	0.0	30
60 Day Avg	74	0.0	Jul	2,989	46.0	31	2,358	0.0	31
3 Mo Avg	82	0.0	Aug	2,323	0.0	31	0	0.0	31
6 Mo Avg	42	0.0	Sept	2,001	1.0	24.9	0	0.0	0
12 MoAvg	48	0.0	Oct	2,056	3.0	31	0	0.0	0
			Nov	1,914	1.0	30	0	0.0	0
<u>Volumes</u>			Dec	1,333	0.0	31	0	0.0	0
(Days in Mor	nth) MCF	BOPD	Total	26,086	69.0		7.512	0.0	
30 Day Avg	73	0.0	Iotai	20,000	05.0		7,513	0.0	
60 Day Avg	74	0.0							
3 Mo Avg	82	0.0					1271	it Form	
6 Mo Avg	41	0.0						Santana in Santa	Name of the last



Package Preparation Volume Data

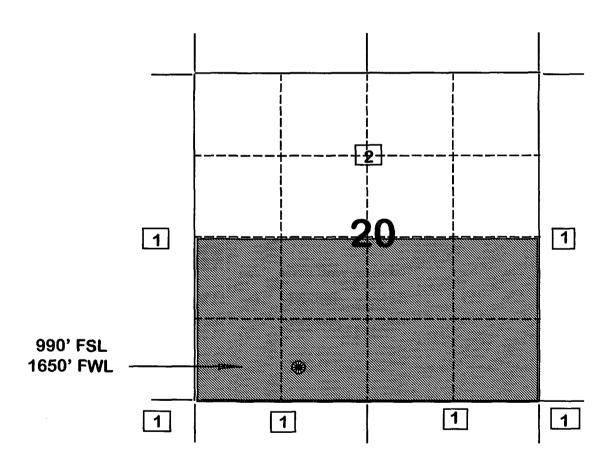
DPNo: (DE)8 3	NUMBABBARANI.	(हरा)(e de la)		För	n: DK	
Supt: 58 RICK MUNCRIEF FF: 331 NO				NOEL ROGERS MS: 341 JACK BIRCHFIELD				D	
Pipeline:	WFS	Plunger:	No	D	uai: Yes		Compre	essor:	No
Ownership (No Trust)				Prior Year			Current Year		
	<u>Gas</u>	<u>Oil</u>				<u>Days</u>			<u>Days</u>
GWI:	25.0000%	25.0000%		MCF/M	BOPM	On	MCF/M	BOPM	On
GNI:	21.8750%	21.8750%	Jan	260	0.0	30	29	0.0	31
			Feb	87	0.0	15.4	74	0.0	28
Volumes			Mar	243	0.0	19.7	82	0.0	31
(Days On)	MCF	D BOPD	Apr	0	0.0	30	14	0.0	30
7 Day Avg	38	3 0.0	May	74	0.0	31	64	0.0	31
30 Day Av	g 3:	5 0.0	Jun	0	0.0	30	124	0.0	30
60 Day Ave	g 2:	2 0.0	Jul	329	2.0	31	293	0.0	31
3 Mo Avg	5	0.0	Aug	25	0.0	9	0	0.0	31
6 Mo Avg	4	0.0	Sept	211	0.0	26.9	0	0.0	0
12 MoAvg	7	0.0	Oct	602	0.0	31	0	0.0	0
			, Nov	530	0.0	30	0	0.0	0
Volumes			Dec	275	0.0	31	0	0.0	0
(Days in M	lonth) MCF	D BOPD	Total	2.636	2.0		680	0.0	
30 Day Av	g 3:	5 0.0	iotai	2,030	2.0		660	0.0	
60 Day Av	g 2:	2 0.0	:						
3 Mo Avg	5	0.0	÷				Se IAU	it Folim	
6 Mo Avg	4	0.0						1 conservation and	
12 Mo Avg	, 6	0.0					EXITAVO	[[U]n(s)s]	Jata .
			1 .						

BURLINGTON RESOURCES OIL AND GAS COMPANY

Culpepper Martin #12 OFFSET OPERATOR \ OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 32 North, Range 12 West



- 1) Burlington Resources
- 2) Amoco Production Company c/o Bruce Zimney P.O. Box 800 Denver, CO 80201

	18		17 1A	1	16 1	2 ♥ 1 A ♥
1	19	8A Cu ⇔	1A ⊕ 20 Ipepper Mar #12 ⊕	1 ❤ tin ¹ 2A ❤	1A ② 21 1 ③	15 ❤ 15A ❤
1	9 \$ 30 2A \$	9A �	13A ® 29	11	4A \$\pi\$ 28 4 \$\pi\$	7 ❤ 7A ♥
	5 ©		10A �	1 4 �	3A �	6 \$

Culpepper Martin #12 j dehart 11/97

Sec 20 T32N R12W

Mesaverde

	18	1 7	16
1 \B	19 Culp	epper Martin #12	15 BB 21
1	30	29 13	28 4
	5 1A 磁 磁		

Culpepper Martin #12 11/97

Sec 20 T32N R12W

Dakota