

0024551074

DHC 9/20/00

1625 N. French Dr., Hobbs, NM 88240  
DISTRICT II  
811 South First St., Artesia, NM 88210  
DISTRICT III  
1000 Rio Brazos Rd. Aztec, NM 87410  
DISTRICT IV  
2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107-A  
Revised March 17, 1999

AUG 31 2000

OIL CONSERVATION DIVISION

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

2831

APPROVAL PROCESS:

Administrative Hearing

EXISTING WELLBORE

YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

Operator Mewbourne Oil Company - P. O. Box 7698 - Tyler, Texas 75711 Address

Lease Crow Flats "34" Federal #1 Well No. L-Sec. 34, T16S, R28E Unit Ltr. - Sec - Twp - Rge Eddy County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14744 Property Code \_\_\_\_\_ API NO. 30-015-31213 Federal  State \_\_\_\_\_ (and/or) Fee \_\_\_\_\_

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Wildcat (Atoka) 96049		S. E. Crow Flats (Morrow) 96840
2. Top and Bottom of Pay Section (Perforations)	9460'-9483'		9666'-9682'
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 Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current)	a.	a. 3500#
	b. (Original) 4280#	b.	b. 3700#
6. Oil Gravity (° API) or Gas BTU Content			1036 BTU
7. Producing or Shut-in?	Shut-in		Producing
Production Marginal? (yes or no)  * If Shut-in, give date and oil/gas/water rates of last production  Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data  * If Producing, give date and oil/gas/water rates of recent test (within 60 days)	No		No
	Date: Rates:	Date: Rates:	Date: Rates:
	Date: 8-04-00 DST Rates: 375 MCFD 2 BOPD, 0 BWPD	Date: Rates:	Date: 8-28-00 Rates: 299 MCFD 0 BOPD, 0 BWPD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

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?  Yes \_\_\_ No  
If not, have all working, overriding, and royalty interests been notified by certified mail? \_\_\_ Yes \_\_\_ No  
Have all offset operators been given written notice of the proposed downhole commingling? \_\_\_ Yes \_\_\_ No

11. Will cross-flow occur?  Yes \_\_\_ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed 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. NMOCD Reference Cases for Rule 303(D) Exceptions ORDER NO(S). \_\_\_\_\_

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 K. M. Calvert TITLE Engineer DATE 8/30/00

TYPE OR PRINT NAME K. M. Calvert TELEPHONE NO. (903) 561-2900

**Attachments to C-107A**

Mewbourne Oil Company  
Crow Flats "34" Federal #1  
Unit Letter L, Sec. 34, T16S,R28E  
Eddy County, New Mexico

- ***C-102 for each zone to be commingled showing its spacing unit and acreage dedication.***

BLM Sundry Notice dated 6/02/00 showing new location w/C-102 attached.

BLM Sundry Notice dated 6/27/00 showing change of well name from Vandagriff "34" Fed. #1

- ***No production curve is attached because this is a new well.***
- ***Estimated production rates and supporting data:***

Morrow      299 MCF/D, 0 BOPD, 0 BWPD. Actual Daily Production into pipeline.

Atoka      375 MCF/D, 2 BOPD, 0 BWPD. Rate estimated from DST Test. No offset Atoka production in the area.

- ***Data to support allocation method or formula:***

Gas:	Morrow	44 %
	Atoka	56 %
Condensate:	Morrow	0 %
	Atoka	100 %

- ***Notification list of all offset operators.***

Enron Oil & Gas Company  
P. O. Box 2267  
Midland, TX 79702

Chi Energy, Inc.  
P. O. Box 1799  
Midland, TX 79702-1799

- ***Notification list of working, overriding, and royalty interests for uncommon interest cases.***      No uncommon interests.
- ***Any additional statements, data or documents required to support commingling.***

The addition of the Atoka as a commingled zone will prevent waste that would not otherwise be possible due to the increased cost to produce each individual zone. Commingling will prevent early abandonment of each production zone. The well is completed with 5½" OD casing. In order to dually complete the well to recover all economic reserves, the use of small diameter special clearance tubing would be required. Performing a dual completion as described could not be economically justified for a zone with limited deliverability.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT-" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. NM 83066
2. Name of Operator Mewbourne Oil Company	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO Box 5270 Hobbs, NM 88241 505-393-5905	7. If Unit or CA, Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Present stake @ 660' FS & WL  Had to move to 1060' FSL & 660' FWL Sec.34 T-16S R-28E	8. Well Name and No. Vandagriff 34 Federal #1
	9. API Well No.
	10. Field and Pool, or Exploratory Area SE Crow Flats, Morrow
	11. County or Parish, State Eddy, NM

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change Name of well.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Mewbourne Oil Company request the name of the Vandagriff 34 Federal #1 (1060' FSL & 660' FWL Sec.34 T-16S R-28E) Eddy County, New Mexico, changed to the Crow Flats 34 Federal #1.

14. I hereby certify that the foregoing is true and correct

Signed [Signature] Title District Manager NM Young Date 08/27/00  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
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**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
 Mewbourne Oil Company

3. Address and Telephone No.  
 PO Box 5270 Hobbs, NM 88241 505-393-5905

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 Present stake @ 660' FS & WL  
  
 Had to move to 1060' FSL & 660' FWL Sec.34 T-16S R-28E

5. Lease Designation and Serial No.  
 NM 83066

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
 Vandagriff 34 Federal #1

9. API Well No.

10. Field and Pool, or Exploratory Area  
 SE Crow Flats, Morrow

11. County or Parish, State  
 Eddy, NM

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Move stake for Archaeology</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Original well was staked @ 660' FSL & 660' FWL of the aboved listed S/T/R.  
 After field Arch survey, Mewbourne Oil Company was told that this location would be unexceptable.  
 On 5/26/00, Mewboourne Oil Company, Desert West Archaeological Services & West Engineering staked & surveyed an exceptable site located @ 1060' FSL & 660' FWL of Sec.34 T-16S R-28E.

14. I hereby certify that the foregoing is true and correct

Signed A.M. Young Title District Manager NM Young Date 06/02/00  
(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

**OIL CONSERVATION DIVISION**

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number	Pool Code	Pool Name
Property Code	Property Name VANDAGRIFF 34 FEDERAL	Well Number 1
OGRID No.	Operator Name MEWBOURNE OIL CO.	Elevation 3527

**Surface Location**

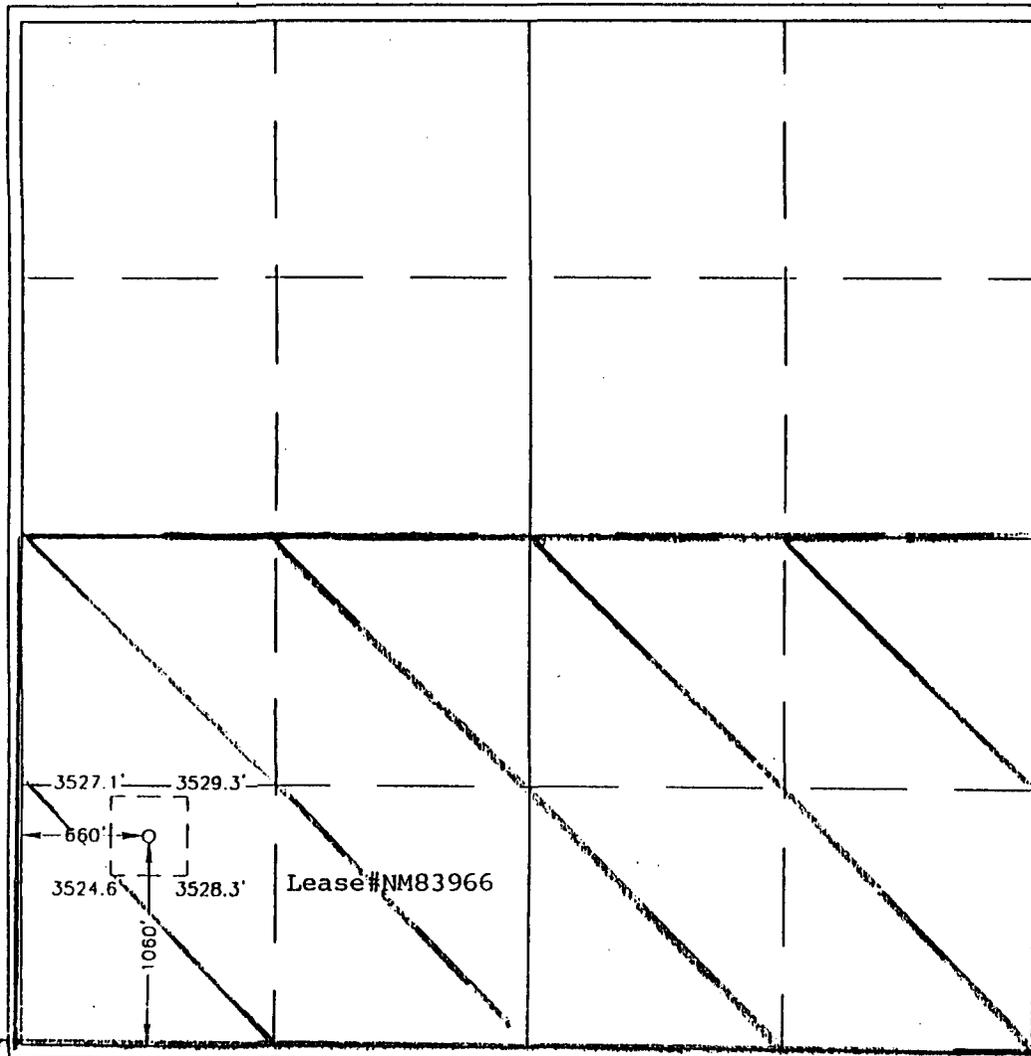
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	34	16 S	28 E		1060	SOUTH	660	WEST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

**NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION**



**OPERATOR CERTIFICATION**

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

*N.M. Young*  
Signature

N.M. Young  
Printed Name

District Manager  
Title

May 31, 2000  
Date

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**SURVEYOR CERTIFICATION**

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 belief.

MAY 26, 2000  
Date Surveyed

DC

Signature & Seal of Professional Surveyor

*Ronald F. Edson*  
3239  
00-11-0679

Certificate No. RONALD F. EDSON 3239  
GARY EDSON 12641  
MAGNUS McDONALD 12185



WELL TEST INTERPRETATION REPORT #:6537807		PAGE: 2.
CLIENT : MEWBOURNE OIL CO		7-AUG-00
REGION :CSD	SEQUENCE OF EVENTS	FIELD:W/C
DISTRICT:HOBBS		ZONE :MIDDLE MORROW
BASE :MIDLAND		WELL :CROW FLAT 34-1
ENGINEER: J. DAUGHERTY		LOCATION: S34T16SR28E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
04-AUG	07:20	HYDROSTATIC MUD	-6	4609	
	07:26	START FLOW ON 1/8" HOSE	0	116	
	07:27	BOTTOM OF BUCKET	1		
	07:28		2		5.0
	07:29		3		8.0
	07:30		4		14.0
	07:31		5		18.0
	07:36		10		40.0
	07:36	CHANGED CHOKE 1/4" TO PIT	10		
	07:41		15		68.0
	07:41	END FLOW & START SHUT-IN	15	183	
	07:45	GAS TO SURFACE	19		
	08:42	END SHUT-IN	76	4357	
	08:44	START FLOW ON 1/4" CHOKE	78	180	
	08:45	30.38 MCFD	79		8.0
	08:46	81.51 "	80		46.0
	08:47	95.03 "	81		56.0
	08:48	103.15 "	82		62.0
	08:49	109.92 "	83		67.0
	08:54	141.15 "	88		90.0
	08:59	182.09 "	93		120.0
	09:04	209.51 "	98		140.0
	09:09	239.78 "	103		162.0
	09:14	264.64 "	108		180.0
	09:24	292.37 "	118		200.0
	09:34	320.19 "	128		220.0
	09:44	334.14 "	138		230.0
	09:54	355.12 "	148		245.0
	10:04	362.12 "	158		250.0
	10:09	376.15 "	163		260.0
	10:52	376.15 "	206		260.0
	10:52	END FLOW & START SHUT-IN	206	429	

Continued next page

WELL TEST INTERPRETATION REPORT #:6537807		PAGE: 3,
CLIENT : MEWBOURNE OIL CO		7-AUG-00
REGION :CSD	SEQUENCE OF EVENTS Continued	FIELD:W/C
DISTRICT:HOBBS		ZONE :MIDDLE MORROW
BASE :MIDLAND		WELL :CROW FLAT 34-1
ENGINEER: J. DAUGHERTY		LOCATION:S34T16SR28E

DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)
	14:56	END SHUT-IN	450	4282	
	15:02	HYDROSTATIC MUD	456	4596	

\*\*\*\*\*  
 \*\* WELL TEST DATA PRINTOUT \*\*  
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COMPANY: MEWBOURNE OIL CO  
 WELL: CROW FLAT 34-1, DST #1

FIELD REPORT NO. 6537807  
 INSTRUMENT NO. SLSR-1185

RECORDER CAPACITY: 10000 PSI    PORT OPENING: OUTSIDE    DEPTH: 9442 FT

LABEL POINT INFORMATION  
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#	TIME OF DAY HH:MM:SS	DATE DD-MMM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA	BOT HOLE TEMP. DEG F
1	7:20:17	4-AUG	HYDROSTATIC MUD	500.28	4609.23	144.36
2	7:29:27	4-AUG	START FLOW	509.45	115.92	144.34
3	7:42:37	4-AUG	END FLOW & START SHUT-IN	522.62	182.65	144.19
4	8:42:37	4-AUG	END SHUT-IN	582.62	4356.53	149.65
5	8:46:57	4-AUG	START FLOW	586.95	180.31	148.62
6	10:51:27	4-AUG	END FLOW & START SHUT-IN	711.45	428.83	130.08
7	14:55:37	4-AUG	END SHUT-IN	955.62	4281.83	144.81
8	14:57:47	4-AUG	HYDROSTATIC MUD	957.78	4595.60	144.95

SUMMARY OF FLOW PERIODS  
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PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	INITIAL PRESSURE PSIA
1	509.45	522.62	13.17	115.92	182.65	115.92
2	586.95	711.45	124.50	180.31	428.83	180.31

SUMMARY OF SHUTIN PERIODS  
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PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	522.62	582.62	60.00	182.65	4356.53	182.65	13.17
2	711.45	955.62	244.17	428.83	4281.83	428.83	137.67