	002455	1074 DI	HC 9/20/00
MISTOINT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 811 South First St., Anesla, NM 88210 AUG 3 1 2 DISTRICT III 1000 Rio Brazos Rd, Azlec, NM 87410 DISTRICT IV 2040 S. Pacheco, Santa Fe, NM 87505	Energy Minerals and Natur	w Mexico al Resources Department TION DIVISION Pacheco exico 87505-6429	Form C-107-A Revised March 17, 1999
Mewbourne Oil Compar	у – Р. О. Вох 76<u>98</u>	,- Tyler, Texas 757	41
Crow Flats "34" Federal		Sec. 34, T16S, R28E	
			acing Unit Lease Types: (check 1 or more)
The following facts are submitted in support of downhole commingling: 1. Pool Name and Pool Code	Upper Zone Wildcat (Atoka) 96049	Intermediate	Lower Zone 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 Oit Zones - Artificial Lift:	a. (Current)	а.	^{a.} 3500#
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. ^(Original) 4280#	b.	^{ь.} 3700#
6. Oil Gravity (°API) or Gas BTU Content			1036 BTU
7. Producing or Shut-In?	Shut-in		Producing
	No		No
Production Marginal? (yes or no) * If Shut-In, give date and oil/gas/	Dale: Rates:	. Dale: Rales:	Date: Rates:
 If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, apolicant shall be required to attach production estimates and supporting data 		[
estimates and supporting data If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	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: %
 If allocation formula is based submit attachments with supp 	upon something other than cu	Irrent or past production, or is method and providing rate pro	based upon some other method, iections or other required data
10. Are all working, overriding, an If not, have all working, overri Have all offset operators been o			-
11. Will cross-flow occur? X Y flowed production be recover			
12. Are all produced fluids from al	Il commingled zones compatib	le with each other? <u>x</u> Y	es No
13. Will the value of production be			
14. If this well is on, or community United States Bureau of Land			
15. NMOCD Reference Cases for 16. 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 it or each zone for at least one ye production history, estimated p ocation method or formula. Il offset operators. orking, overriding, and royalty ements, data, or documents red	Is spacing unit and acreage de ear. (If not available, attach exp roduction rates and supporting interests for uncommon intere quiredo support commingling.	dication. Ianation.) I data. Ist cases.
I hereby certify that the information	1.14	-	
	U	TITLE Engineer	DATE8/30/00
TYPE OR PRINT NAME K. M.	. Calvert	TELEPHONE N	(<u>903</u>) 561-2900

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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:

<u>Morrow</u>	299 MCF/D, 0 BOPD, 0 BWPD. Actual Daily Production into pipeline.
<u>Atoka</u>	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	Chi Energy, Inc.		
P. O. Box 2267	P. O. Box 1799		
Midland, TX 79702	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 $5\frac{1}{2}$ " 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.

form 3160 June 1990		. ED STATES NT OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993			
	BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No. NM 83066			
Do not	use this form for proposals to dr	AND REPORTS ON WELLS ill or to deepen or reentry to a different reservoir. DR PERMIT-" for such proposals	6. If Indian, Allottee or Tribe Name			
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation			
I. Type of O W	veti 🕅 Gas Veti 🕅 Well 🗌 Other		8. Well Name and No. Vandagriff 34 Federal #1			
Mewbo	r Operator ourne Oll Company	9. API Well No.				
PO Bo	and Telephone No. x 5270 Hobbs, NM 88241 505-39 n of Well (Footage, Sec. T. R. M. or Survey De		10. Field and Pool, or Exploratory Area SE Crow Flats, Morrow			
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Present stake @ 660' FS & WL			SE Crow Flats, Morrow 11. County or Parish, State			
	move to 1060' FSL & 660' FWL Sec		Eddy, NM			
2.) TO INDICATE NATURE OF NOTICE, REPORT, C				
	TYPE OF SUBMISSION	TYPE OF ACTION	Change of Plans			
	Subsequent Report	Recompletion Plugging Back	New Construction			
	Final Abandonment Notice	Casing Repair Altering Casing Other Change Name of well.	Water Shut-Off Conversion to Injection			
		Other Change Name of well.	Dispose Water			
3. Descri	be Proposed or Completed Operations (Clearly s	tate all pertinet details, and give pertinent dates, including estimated date	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) of starting any proposed work. If well is work 1*			
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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.

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	TYPE OF SUBMISSION	TYPE OF ACTION	
	Notice of Intent		Change of Plans
	X Subsequent Report	Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
	Final Abandonment Notice	Altering Casing	Conversion to Injection
		Other Move stake for Archaeology	Dispose Water
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DISTRICT I P.O. Dox 1980. - Robbs, NM 88241-1988

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DISTRICT II" P.O. Drawer DD, Artesia, NM 88211-0718

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 87504-2088 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fce Lease - 3 Copies

OIL CONSERVATION DIVISION

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

Santa Fe, New Mexico 87504-2088

C AMENDED REPORT

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REPORT NO. 6537807	S T	
PAGE NO. 1	Schlumberger Tes	ting Data Report Schlumberger
TEST DATE:	Pressure D	ata Report
04-AUG-2000		
COMPANY: MEWBOUR	NE OIL CO	WELL: CROW FLAT 34 FED-1, DST #1
Test Interval (ft) <u>Depth Reference</u> HOLE CONDITIONS Total Depth (MD/TVE Hole Size (in) Casing/Liner I.D. Perf'd Interval/Net Shot Density/Diame INITIAL TEST CON Initial Hydrostatic Gas Cushion Type Surface Pressure (p Liquid Cushion Type)	OH-DST-SLSR ONE MIDDLE MORROW 9420 to 9540 (in) 7.875 (in) 8.625 © 2090 t Pay (ft) ter (in) NDITIONS c (psi) 4609.23	WELL LOCATION Field
Cushion Length (ft)		Gauge Depth (ft)/Type 9442/SLSR-1185 NET SAMPLE CHAMBER RECOVERY
	d Type Properties	Volume Fluid Type Properties
450 ft DRLG M	1UD Rw0.153060F 53000ppm	1.57 cuft Gas 450 cc Oil API 53.3060F 400 cc Mud Rw 0.153060F 53000p Pressure: 360 GOR: 554 GLR: 293
INTERPRETATION Model of Behavior Fluid Type Used fo Reservoir Pressure Transmissibility (Effective Permeabi Skin Factor/Damage Storativity Ratio, Interporos.Flow Co Distance to an Ano Radius of Investig Potentiometric Sur	r Analysis (psi) md.ft/cp) lity (md) Ratio Omega ef.,Lambda maly (ft) ation (ft)	ROCK/FLUID/WELLBORE PROPERTIES Dil Density (deg. API) Basic Solide (%) Gas Gravity GOR (scf/STB) Water Cut (%) Viscosity (cp) Total Compressibility (1/psi). Porosity (%) Reservoir Temperature (F) 152 Form.Vol.Factor (bb1/STB)

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PRODUCTION RATE DURING TEST: Data Report

COMMENTS:

THIS DST OF THE MIDDLE MORROW (9420-9540) WAS MECHANICALLY SUCCESSFULL.TOTAL RECOVERY 450 FT=2.205 BBL. DRLG MUD. THANK YOU FOR USING SCHLUMBERGER TESTING.

ELL TEST I IENT : ME			EPORT #:6537807			2, NUG-00	
	CSD CEQUENCE OF A		EVENTS	ZONE	D:W/C :MIDDLE :CROW F TION:S34	LAT 34-1	
DATE	TIME (HR:MIN)	DE	SCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)	
04-AUG	07:20	HYDROS	TATIC MUD	-6	4609		
	07:26 07:27		FLOW ON 1/8" HOSE OF BUCKET	0	116		

07:26 07:27	START FLOW ON BOTTOM OF BUCK		0 1	116	
07:28	DUTTUM OF DUCK		5		5 6
07:20			2		5.0
			ц З		8.0
07:30			4 5		14.0
07:31					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 & STA	BT 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 & ST	ABT SHUT-IN	206	429	

Continued next page

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	WELL TEST INTERPRETATION REPORT ≭:6537807 CLIENT : MEWBOURNE OIL CO				5: 3, AUG-00	
			OF EVENTS inued	ZONE	D:W/C :MIDDLE :CROW F TION:S3	FLAT 34-
DATE	TIME (HR:MIN)	DESCRIPTION	ET (MINS)	BHP (PSIA)	WHP (PSIG)	

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14:56	END SHUT-IN	450	4282
15:02	HYDROSTATIC MUD	456	4596

FORM# 11.00-102590

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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

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

SUMMARY OF FLOW PERIODS

	START ELAPSED	END ELAPSED	DURATION	START PRESSURE	END PRESSURE	INITIAL PRESSURE
PERIOD	TIME, MIN	TIME, MIN	MIN	PSIA	PSIA	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

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