

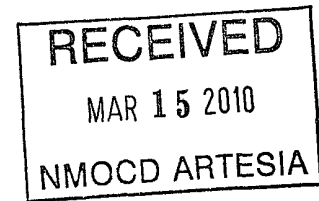
TRAVIS/Company



**Marathon  
Oil Company**

P.O. Box 2490  
Hobbs, New Mexico 88240  
Telephone 505/393-7106

June 26, 2000



Mr. Mark Ashley  
Petroleum Engineering Specialist  
New Mexico Oil Conservation Division  
2040 S. Pacheco  
Sante Fe, NM 87505

Re: Request for Exception to Rule 303-A  
Downhole & Surface Commingling  
William Lightfoot '20' State No. 1  
810' FSL & 660' FWL  
Sec. 20, T-18-S, R-28-E  
Wildcat; Wolfcamp & Winchester; Upper Penn West Pools  
Eddy County, New Mexico

Dear Mr. Ashley:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole and surface commingling of production in the above subject well from the Wildcat; Wolfcamp and Winchester; Upper Penn West pools.

The well was an Upper Penn producer, and had reached its producible economic limit. For this reason, Marathon recompleted the Wolfcamp with the Upper Penn to maximize the economical production from the well. Rod pumping equipment is being utilized to keep the PBHP as low as possible to prevent crossflow.

Marathon currently downhole and surface commingles production from the Travis; Upper Penn and Travis; Wolfcamp pools in the Edward Mitchusson '4' St. No. 1, Sec 4, T-19-S, R-28-E (DHC 2233) and in the Samuel Burns '34' State No. 2, Sec 34, T-18-S, R-28-E (DHC 2027) with no compatibility problems.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Andrew J. Schwandt'.

Andrew J. Schwandt  
Production Engineer  
(505) 393-7106

Enclosure



P.O. Box 2490  
Hobbs, New Mexico 88240  
Telephone 505/393-7106

June 26, 2000

Mr. Pete Martinez  
Commissioner of Public Lands  
State Land Office Building  
P.O. Box 1148  
Santa Fe, NM 87504-1148

Re: Request for Exception to Rule 303-A  
Downhole & Surface Commingling  
William Lightfoot '20' State No. 1  
810' FSL & 660' FWL  
Sec. 20, T-18-S, R-28-E  
Wildcat; Wolfcamp & Winchester; Upper Penn West Pools  
Eddy County, New Mexico

Dear Mr. Martinez:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole and surface commingling of production in the above subject well from the Wildcat; Wolfcamp and Winchester; Upper Penn West pools.

The well was an Upper Penn producer, and had reached its producible economic limit. For this reason, Marathon recompleted the Wolfcamp with the Upper Penn to maximize the economical production from the well. Rod pumping equipment is being utilized to keep the PBHP as low as possible to prevent crossflow.

Marathon currently downhole and surface commingles production from the Travis; Upper Penn and Travis; Wolfcamp pools in the Edward Mitchusson '4' St. No. 1, Sec 4, T-19-S, R-28-E (DHC 2233) and in the Samuel Burns '34' State No. 2, Sec 34, T-18-S, R-28-E (DHC 2027) with no compatibility problems.

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Sincerely,

A handwritten signature in cursive script, appearing to read 'Andrew J. Schwandt'.

Andrew J. Schwandt  
Production Engineer  
(505) 393-7106

Enclosure



**Marathon  
Oil Company**

P.O. Box 2490  
Hobbs, New Mexico 88240  
Telephone 505/393-7106

June 26, 2000

Mr. Tim Gum  
District 2 Supervisor  
Oil Conservation Division  
811 S. First St.  
Artesia, NM 88210

Re: Request for Exception to Rule 303-A  
Downhole & Surface Commingling  
William Lightfoot '20' State No. 1  
810' FSL & 660' FWL  
Sec. 20, T-18-S, R-28-E  
Wildcat; Wolfcamp & Winchester; Upper Penn West Pools  
Eddy County, New Mexico

Dear Mr. Gum:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole and surface commingling of production in the above subject well from the Wildcat; Wolfcamp and Winchester; Upper Penn West pools.

The well was an Upper Penn producer, and had reached its producible economic limit. For this reason, Marathon recompleted the Wolfcamp with the Upper Penn to maximize the economical production from the well. Rod pumping equipment is being utilized to keep the PBHP as low as possible to prevent crossflow.

Marathon currently downhole and surface commingles production from the Travis; Upper Penn and Travis; Wolfcamp pools in the Edward Mitchusson '4' St. No. 1, Sec 4, T-19-S, R-28-E (DHC 2233) and in the Samuel Burns '34' State No. 2, Sec 34, T-18-S, R-28-E (DHC 2027) with no compatibility problems.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andrew J. Schwandt'.

Andrew J. Schwandt  
Production Engineer  
(505) 393-7106

Enclosure

**REQUEST FOR EXCEPTION TO RULE 303-A**  
**William Lightfoot '20' State No. 1**  
**Winchester Field**

**A: Operator**

Marathon Oil Company  
P.O. Box 2409  
Hobbs, NM 88241-2409

**B: Lease Name and Well Number**

William Lightfoot '20' State No. 1  
810' FSL & 660' FWL  
Sec. 20, T-19-S, R-28-E  
Eddy Co., New Mexico  
Wildcat; Wolfcamp and Winchester; Upper Penn West

**C: Plats**

Attached

**D: Form C-116**

Attached

**E: Production Decline Curves**

Attached

**F: Estimated Bottomhole Pressures**

Wildcat (Wolfcamp) – est. 2000 psi  
Winchester (Upper Penn West) – est. 2000 psi

**G: Fluid Characteristics**

Marathon currently downhole and surface commingles production from the Travis; Upper Penn and Travis; Wolfcamp pools in the Edward Mitchusson '4' St. No. 1, Sec 4, T-19-S, R-28-E (DHC 2233) and in the Samuel Burns '34' State No. 2, Sec 34, T-18-S, R-28-E (DHC 2027) with no compatibility problems.

**H: Value**

Marathon receives the same price for the products from each zone and value will not be adversely affected.

**I: Production Allocation**

<u>Pool</u>	<u>BOPD</u>	<u>MCFPD</u>	<u>BWPD</u>	<u>Test Method</u>
Wildcat (Wolfcamp)	8	39	3	Post work incremental
Winchester (Upper Penn West)	<u>10</u>	<u>47</u>	<u>0</u>	3/31/00 Production
	18	86	3	6/25/00 Production

<u>Allocated Percentages</u>	<u>Oil %</u>	<u>Gas %</u>	<u>Water %</u>
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Post-workover utilizing above production

Wildcat (Wolfcamp)	44%	45%	100%
Winchester (Upper Penn West)	<u>56%</u>	<u>55%</u>	<u>0%</u>
Total	100%	100%	100%

**J: Ownership**

Ownership of all zones is common and correlative rights will not be violated.

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-102  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-30247	<sup>2</sup> Pool Code 96810	<sup>3</sup> Pool Name Winchester; Upper Penn West
<sup>4</sup> Property Code 23345	<sup>5</sup> Property Name William Lightfoot '20' State	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 014021	<sup>8</sup> Operator Name Marathon Oil Company	<sup>9</sup> Elevation 3468

<sup>10</sup> Surface Location

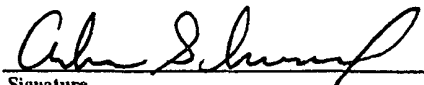
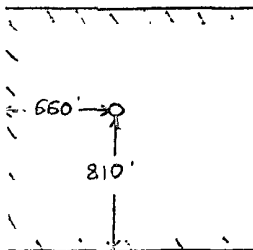
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	20	19-S	28-E		810	South	660	West	Eddy

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

				<sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i>   Signature Andrew Schwandt Printed Name Production Engineer Title 6-26-00 Date
				<sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i>  Date of Survey  Signature and Seal of Professional Surveyer:  Certificate Number
				

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised October 18, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
2040 South Pacheco  
Santa Fe, NM 87505

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
811 S. 1st Street, Artesia, NM 88210-2834  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-30247		<sup>2</sup> Pool Code		<sup>3</sup> Pool Name Wildcat; Wolfcamp	
<sup>4</sup> Property Code 23145		<sup>5</sup> Property Name William Lightfoot '20' State			<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 014021		<sup>8</sup> Operator Name Marathon Oil Company			<sup>9</sup> Elevation 3468

<sup>10</sup> 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	20	19-S	28-E		810	South	660	West	Eddy

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

					<p><sup>17</sup> OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p></p> <p>Signature Andrew Schwandt Printed Name Production Engineer Title 6-26-00 Date</p>
					<p><sup>18</sup> SURVEYOR CERTIFICATION <i>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.</i></p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyer:</p> <p>Certificate Number</p>

Submit 2 copies to Appropriate  
District Office.  
**DISTRICT I**  
P.O. Box 1980, Hobbs, NM 88240  
**DISTRICT II**  
811 S. 1st Street, Artesia, NM 88210-2834  
**DISTRICT III**  
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department  
**OIL CONSERVATION DIVISION**  
2040 Pacheco St.  
Santa Fe, NM 87505

Form C-116  
Revised 1/1/89

### GAS - OIL RATIO TEST

Operator <b>Marathon Oil Company</b>				Pool <b>Wildcat; Wolfcamp / Winchester; Upper Penn West</b>				County <b>Eddy</b>								
Address <b>P.O. Box 2490 Hobbs, NM 88240</b>				TYPE OF TEST - (X)		Scheduled <input type="checkbox"/>		Completion <input type="checkbox"/>		Special <input checked="" type="checkbox"/>						
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST				GAS-OIL RATIO CU.FT/BBL
		U	S	T	R							WATER BBLs.	GRAV. OIL	OIL BBLs.	GAS M.C.F.	
<b>William Lightfoot 20 State</b>	<b>1</b>	<b>M</b>	<b>20</b>	<b>19S</b>	<b>28E</b>	<b>6/25/00</b>	<b>P</b>				<b>24</b>	<b>3</b>		<b>18</b>	<b>86</b>	
DHC 011x Gasx														8	39	4875
Wolfcamp 44 45														10	47	4700
Upper Penn 56 55																
FOR INFORMATION ONLY																

**Instructions:**

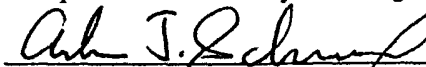
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 °F.  
Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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



Signature

Andrew J. Schwandt

Prod. Eng.

Printed name and title

June 27, 2000

393-7106

Date

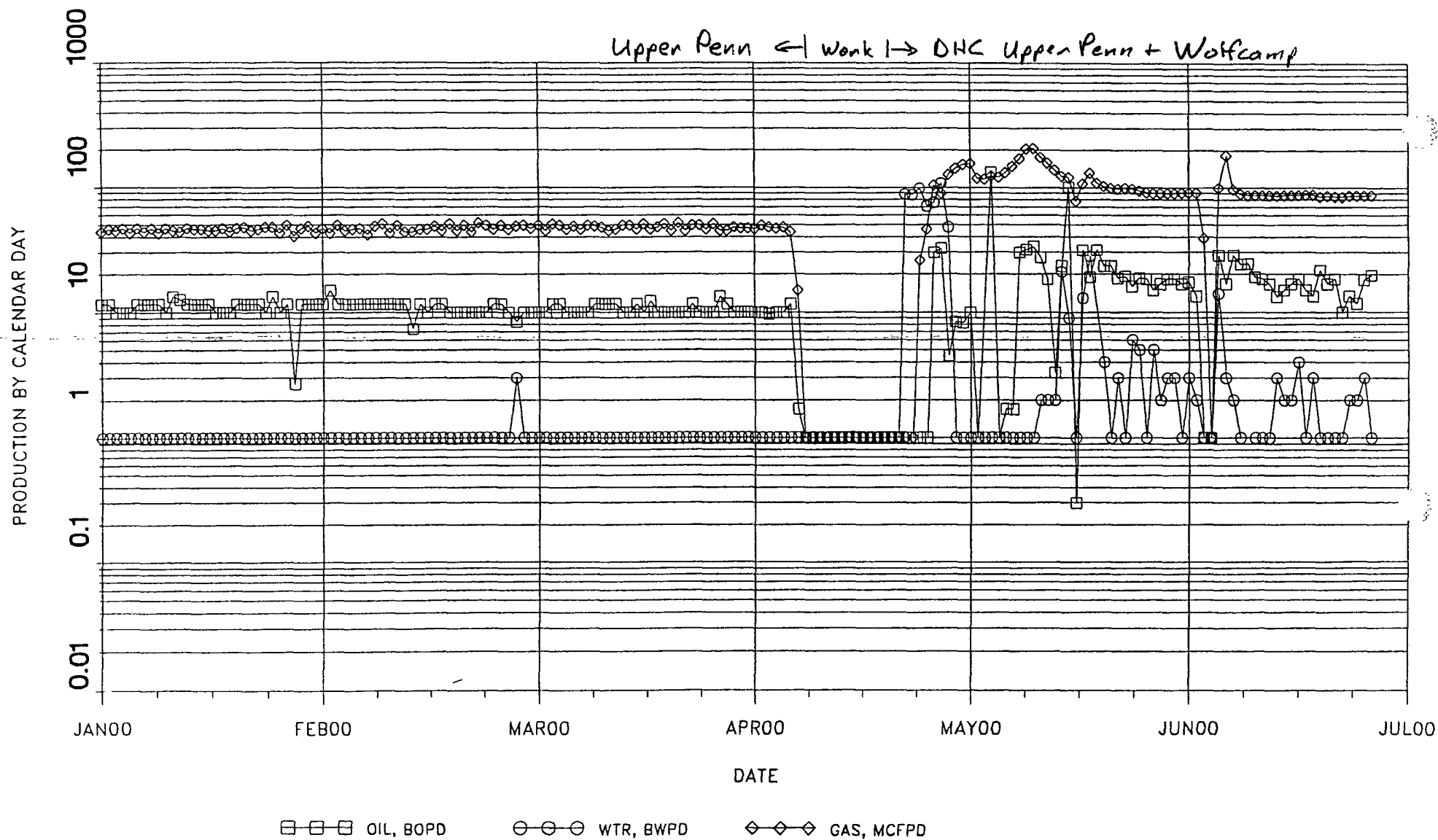
Telephone No.

# Midland Operations

Handheld Battery Production Data

Daily Handheld Production from 01/01/00 to current

LIGHTFOOT BTRY



DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

111 South First St., 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 87505-6429Form C-107-A  
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

## APPLICATION FOR DOWNHOLE COMMINGLING

Operator Marathon Oil Company Address PO Box 2490 Hobbs, NM 88240

Well No. William Lightfoot 20 State No. 1 Unit Ltr. - Sec. - Twp. - Rge. UL M, Sec. 20, T-19-S, R-28-E County Eddy

Spacing Unit Lease Types: (check 1 or more)

UGRID NO. 014021 Property Code 23345 API NO. 30-015-30247 Federal ☐ State ☒ Landlord Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Wolfcamp		Upper Penn 96810
2. Top and Bottom of Pay Section (Perforations)	8814-8824'		9624-9724'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	a. (Current) 2000 b. (Original) 2500	a. b.	a. 2000 b. 2500
6. Oil Gravity ( $^{\circ}$ API) or Gas BTU Content	42		45
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* 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	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/	Date: 6/25/00	Date:	Date: 3/31/00