DHC 5/3/99

Houston Division
Production Operations, United States

DERVATION DIVISION



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

April 7, 1999

Mr. David Catanach
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, NM 87501-2088

Re: Request for Exception to Rule 303-A

Downhole Commingling McCallister St. No. 11

UL "K", 1927' FSL & 2134' FWL

Sec. 25, T-17-S, R-34-E

Blinebry, Abo, Wolfcamp and Upper Penn Pools

Vacuum Field

Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Vacuum Blinebry, Vacuum, Abo, and Vacuum, Wolfcamp, Vacuum, Upper Penn pools.

The Abo, Wolfcamp and Upper Penn zones are currently commingled (DHC-120), and are reaching the producible economic limit. For this reason, Marathon is requesting to downhole commingle the Abo, Wolfcamp, Upper Penn and Blinebry to maximize the economical production from the well. Rod pumping equipment will be utilized to keep the PBHP as low as possible to prevent crossflow.

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

Sincerely,

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

n:/regltory/commling/dhc/coverpag/MCAL11_B Enclosure



April 7, 1999

Mr. Chris Williams District I Supervisor Oil Conservation Division P.O. Box 1980 Hobbs, NM 88240

Re:

Request for Exception to Rule 303-A
Downhole Commingling
McCallister St. No. 11
UL "K", 1927' FSL & 2134' FWL
Sec. 25, T-17-S, R-34-E
Blinebry, Abo, Wolfcamp and Upper Penn Pools
Vacuum Field
Lea County, New Mexico

Dear Mr. Williams:

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

The Abo, Wolfcamp and Upper Penn zones are currently commingled (DHC-120), and are reaching the producible economic limit. For this reason, Marathon is requesting to downhole commingle the Abo, Wolfcamp, Upper Penn and Blinebry to maximize the economical production from the well. Rod pumping equipment will be utilized to keep the PBHP as low as possible to prevent crossflow.

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Sincerely,

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

n:/regitory/commling/dhc/coverpag/MCAL11_C Enclosure

Cel I Solul



April 7, 1999

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 Commingling McCallister St. No. 11

UL "K", 1927' FSL & 2134' FWL

Sec. 25, T-17-S, R-34-E

Blinebry, Abo, Wolfcamp and Upper Penn Pools

Vacuum Field

Lea County, New Mexico

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Sincerely,

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

n:/regltory/commling/dhc/coverpag/MCAL11_A Enclosure



April 7, 1999

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

Re:

Request for Exception to Rule 303-A

Downhole Commingling
McCallister St. No. 11
UL "K", 1927' FSL & 2134' FWL

Sec. 25, T-17-S, R-34-E

Abo, Wolfcamp, Upper Penn and Blinebry Pools

Vacuum Field

Lea County, New Mexico

Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above referenced well. Please find enclosed a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign below and mail the original to the NMOCD in the enclosed addressed envelope. Also, please return one copy to Marathon at the letterhead address.



April 7, 1999

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109

Re:

Request for Exception to Rule 303-A

Downhole Commingling McCallister St. No. 11

UL "K", 1927' FSL & 2134' FWL

Sec. 25, T-17-S, R-34-E

Abo, Wolfcamp, Upper Penn and Blinebry Pools

Vacuum Field

Lea County, New Mexico

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Sincerely,
Cell J.S.M.

Andrew J. Schwandt Production Engineer

n:\regitory\commling\dhc\wio\mcall1_c Enclosure

Agreed and accepted this	day of	1998
by		, as representative of



April 7, 1999

Mobil Exploration and Producing U.S. Inc. 500 W. Illinois, Midland, TX 79701 P.O. Box 633, Midland, TX 79702-0633

Lea County, New Mexico

Re:

Request for Exception to Rule 303-A
Downhole Commingling
McCallister St. No. 11
UL "K", 1927' FSL & 2134' FWL
Sec. 25, T-17-S, R-34-E
Abo, Wolfcamp, Upper Penn and Blinebry Pools
Vacuum Field

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If you are in agreement and waive all objections to the downhole commingling, please sign below and mail the original to the NMOCD in the enclosed addressed envelope. Also, please return one copy to Marathon at the letterhead address.

REQUEST FOR EXCEPTION TO RULE 303-A McCallister St. No. 11 Vacuum Field

A: Operator

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

B: Lease Name and Well Number

McCallister St. No. 11
UL K 1927' FSL & 2134' FWL
Sec. 25, T-17-S, R-34-E
Lea Co., New Mexico
Vacuum: Abo, Wolfcamp, Upper Penn and Blinebry Pools

C: Plats and Offset Operators

Attached

D: Form C-116

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Vacuum (Blinebry) – ±500 psi Vacuum (Abo) - ±500 psi Vacuum (Wolfcamp) - ±500 psi Vacuum (Upper Penn) - ±500 psi

G: Fluid Characteristics

Marathon has downhole commingled the produced fluids from the Abo, Wolfcamp and Upper Penn zones in McCallister State No. 12 and downhole commingled the produced fluids from the Abo, Wolfcamp and Blinebry zones in the McCallister State No. 5. These wells are produced to the same battery without compatibility problems. The addition of the Blinebry production in the McCallister State No. 11 will not cause any compatibility problems.

H: Value

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

Request for Exeption to Rule 303-A McCallister St. No. 11 Page 2

Production Allocation T:

<u>Pool</u>	BOPD	MCFPD	BWPD	Estimate Method
Vacuum (Blinebry)	21	27	38	Post-work incremental production
Vacuum (Abo)	9	24	10	Pre-work allocated production
Vacuum (Wolfcamp)	12	27	2	Pre-work allocated production
Vacuum (Upper Penn		<u>6</u>	<u>29</u>	Pre-work allocated production
	47	84	79	Well test on 3/20/99
Allocated Percentag	es Oil %	6 Gas %	Water %	
Pre-workover Admin	istrative Order	No. DHC-12	.0	
Vacuum (Abo)	33%	6 43%	24%	
Vacuum (Wolfcamp)	48%	6 47%	5%	
Vacuum (Upper Penr	n) 19%	6 10%	71%	
Post-workover utilizi	ng above prod	uction		
Vacuum (Blinebry)	44.′	7% 32.1%	48.1%	
Vacuum (Abo)	19.2	2% 28.6%	12.7%	
Vacuum (Wolfcamp)	25.:	5% 32.1%	2.5%	
Vacuum (Upper Penr	n) <u>10.</u> 0	<u>5%</u> <u>7.2%</u>	<u>36.7%</u>	
Total	100	0 100	100	

Ownership J:

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

K: **Offset Operator Notification**

By copy of this letter we are notifying all offset operators (attached) of the proposed commingling, by certified mail.

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

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1	API Numbe	r		² Pool Code			³ Pool Name)		
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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

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 8750

		AMENDED REPORT
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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

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

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	AMENDED REPORT
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State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

2040 South Pacheco Santa Fe, NM 87505

	AMENDED REPORT
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2040 South Pacheco Santa Re. NM 87505

District I

District II

District III

District IV

PO Box 1980, Hobbs, NM 88241-1980

811 S. 1st Street, Artesia, NM 88210-2834

1000 Rio Brazos Rd., Aztec, NM 87410

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Certificate Number

Marathon Oil Company
McCallister St. No. 11
UL "K", 1927' FSL & 2134' FWL
Sec. 25, T-17-S, R-34-E
Vacuum Field
Lea County, New Mexico

Offset Operators and Addresses

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

Mobil Exploration and Producing U.S. Inc. 500 W. Illinois, Midland, TX 79701 P.O. Box 633, Midland, TX 79702-0633

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109

DISTRICT II
811 S. 1st Street, Artesia, NM 88210-2834

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

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

Revised 1/1/89

Form C-116

GAS - OIL RATIO TEST

Operator					_	Pool					<u>ŏ</u>	County			
Marathon Oil Company		İ				Vacuum; E	Vacuum; Blinebry, Abo, Wolfcamp, Upper Penn	o, Wolfc	amp, Uppe	r Penn	_			Lea	
Address P.O. Box 2490 Hobbs, NM 88240	40						TYPE OF TEST - (X)	Scheduled		ŏ	Completion		Ś	Special X	
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McCallister State	11	×	25	175	34E	3/20/99	۵			24	6/		47	84	
DHC Application					-										
Zone Oil Gas Wtr															
Blinebry 44.7 32.1 48.1											38		21	27	1286
Abo 19.2 28.6 12.7											10		6	24	2667
Wolfcamp 25.5 32.1 2.5											2		12	27	2250
Up.Penn 10.6 7.2 36.7											82		ഹ	9	1200
FOR INFORMATION ONLY															
Instructions:									I P	I hereby certify that the above information is true and	tify that	the above	e inform	ation is true	ue and

Instructions:

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

Production Engineer

Andrew J. Schwandt Printed name and title April 7, 1999

Signature

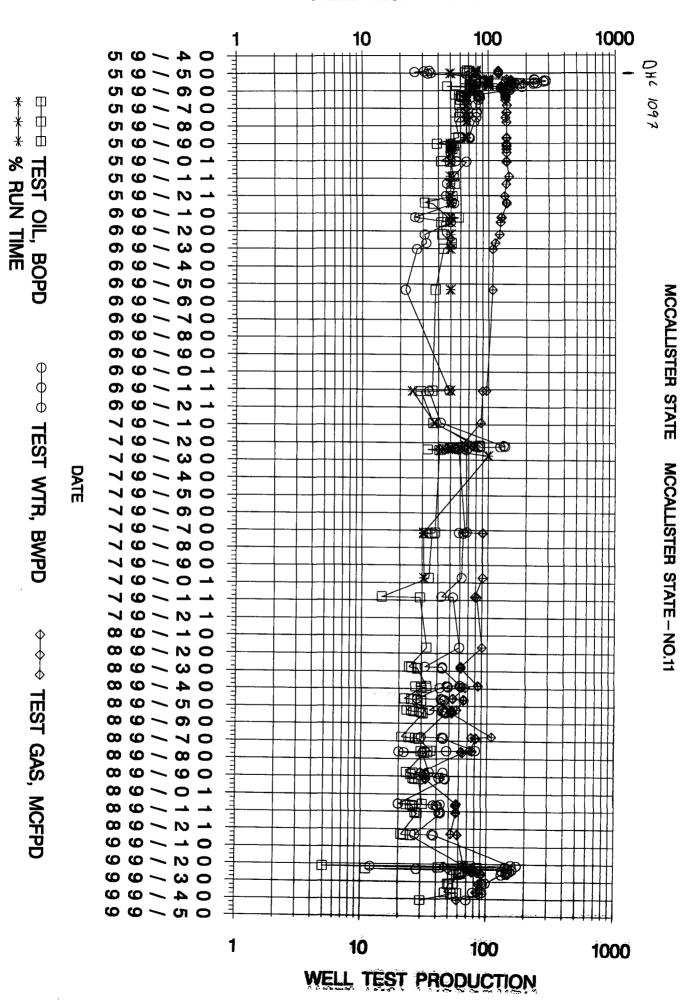
complete to the best of my knowledge and belief

Telephone No.

393-7106

Report casing pressure in lieu of tubing pressure for any well producing through casing. Specific gravity base will be 0.60.

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



Midland Operations

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 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 87505-6429 Form C-107-A New 3-12-96

M6M 2-15-20

APPROVAL PROCESS:

X Administrative Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

X YES __ NO

McCallister State	Addr	Box 2490 Hobbs, NM	882411
mccarrister State	11 UL	K, Sec.25, T-17S, R-34E	Lea County
RID NO. 014021 Property Code			acing Unit Lease Types: (check 1 or more)
he following facts are submitted in upport of downhols commingling:	Upper Zono	Intermediate Zones	Lower Zone
Pool Name and		Vacuum; Wolfcamp 62340	Vacuum: Upper Penn 62320
. Top and Bottom of Pay Section (Perforations)		9273 - 9917'	10,044 - 10,082'
3. Type of production (Oil or Gas)		Oil	0i1
4. Method of Production (Flowing or Artificial Lift)			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current)	a. 500	a. 500
Gas & Oil - Flowing: Estimated Current Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b
6. Oil Gravity (° API) or Gas BTU Content		35	35
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	Date: Rates:	Date: Rates:	Date: Rates:
If Producing, give date andoil/gas/ water rates of recent test	Dete: Retes:	Date: 3/20/99 Rutes: 12/27/2	Date: 3/20/99 Rates: 5/6/29
(within 60 days)			
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Ges: %	Oil: 25.5 % Gas; 32.1 %	Oii: 10.6 % Gas: 7.2 %
8. Fixed Percentage Allocation Formula -% for each zone	% %		
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su	upon something other than opporting data and/or explaining	current or past production, or is method and providing rate p	based upon some other metl
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators beer	wpon something other than opporting data and/or explaining and royalty interests identical triding, and royalty interests by given written notice of the p	current or past production, or is ng method and providing rate point all commingled zones? peen notified by certified mail? proposed downhole commingling	based upon some other metrojections or other required disconsisted in the second secon
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators been 1. Will cross-flow occur? flowed production be recove 2. Are all produced fluids from	wpon something other than opporting data and/or explaining and royalty interests identical rriding, and royalty interests being given written notice of the pyes X No If yes, are fluid red, and will the allocation for all commingled zones compating	current or past production, or is no method and providing rate production in all commingled zones? Deen notified by certified mail? Proposed downhole commingling as compatible, will the formations rmula be reliable. Yes	based upon some other methorizations or other required disconsisted in the second of t
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators been 1. Will cross-flow occur? flowed production be recove 2. Are all produced fluids from 3. Will the value of production	wpon something other than copporting data and/or explaining and royalty interests identical rriding, and royalty interests being given written notice of the pared, and will the allocation for all commingled zones compatible decreased by commingling	current or past production, or is no method and providing rate production in all commingled zones? Seen notified by certified mail? The proposed downhole commingling as compatible, will the formations roula be reliable. Yes X No (If	based upon some other metrojections or other required disconsisted in the projection of the projection of the projection of the projection of the damaged, will any crops of the projection of t
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators beer have all offset operators beer 1. Will cross-flow occur? flowed production be recove 2. Are all produced fluids from 3. Will the value of production	upon something other than opporting data and/or explaining and royalty interests identical rriding, and royalty interests by given written notice of the power of	current or past production, or is no method and providing rate production in all commingled zones? Seen notified by certified mail? The proposed downhole commingling as compatible, will the formations roula be reliable. Yes X No (If	based upon some other metrojections or other required d X Yes No Yes No Yes No S not be damaged, will any crance No (If No, attach explanation) Yes, attach explanation)
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators beer 11. Will cross-flow occur? flowed production be recove 12. Are all produced fluids from 13. Will the value of production of the companion of the	wpon something other than opporting data and/or explaining and royalty interests identical rriding, and royalty interests being given written notice of the particular of the	current or past production, or is ing method and providing rate production in all commingled zones? Seen notified by certified mail? The proposed downhole commingling is compatible, will the formations roula be reliable. The production of the pr	based upon some other met rojections or other required d X Yes No Yes No Yes No S not be damaged, will any control of Public Lands or the normal results.
8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lf not, have all working, over Have all offset operators beer 11. Will cross-flow occur? flowed production be recove 12. Are all produced fluids from 13. Will the value of production list. NMOCD Reference Cases for left. ATTACHMENTS: * C-102 for each zo Production curve for zones with no Data to support all Notification list of	upon something other than opporting data and/or explaining and royalty interests identical rriding, and royalty interests to given written notice of the polyalty interests to given written notice all commingled zones compatible decreased by commingling intized with, state or federal lad Management has been notice in Rule 303(C) Exceptions: One to be commingled showing for each zone for at least one production history, estimated light states one all offset operators.	current or past production, or is ing method and providing rate production in all commingled zones? Seen notified by certified mail? The proposed downhole commingling is compatible, will the formations roula be reliable. The production of the pr	based upon some other metholections or other required disconsisted and the second seco
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8. Fixed Percentage Allocation Formula -% for each zone 9. If allocation formula is based submit attachments with su 10. Are all working, overriding, a lif not, have all working, over Have all offset operators beer 1. Will cross-flow occur? flowed production be recove 2. Are all produced fluids from 3. Will the value of production of the lift this well is on, or communuited States Bureau of Lands. 4. If this well is on, or communuited States Bureau of Lands. 5. NMOCD Reference Cases for the lift of	upon something other than opporting data and/or explaining and royalty interests identical riding, and royalty interests in given written notice of the particular of the part	current or past production, or is ing method and providing rate production and providing rate proposed downhole commingling is compatible, will the formations rmula be reliable. Yes X No (If the first indicate in writing of this application of this application of the production rates and support alty interests for uncommon interequired to support comminglish te to the best of my knowledge. TITLE Production Eng.	based upon some other methologications or other required displayed by the second of th

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210 <u>DISTRICT III</u> 1000 Rio Brazos Rd, Aztec, NM 87410

TYPE OR PRINT NAME Andrew J. Schwandt

State of New Mexico
Energy, Minerals and Natural Resources Department

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

OIL CONSERVATION DIVISION

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

APPLICATION FOR DOWNHOLE COMMINGLING

APPROVAL PROCESS:

X Administrative ___Hearing

TELEPHONE NO. (505) 393-7106

EXISTING WELLBORE

X YES __ NO

		Sec.25, T-17S, R-34E IISec-Twp-Rge Spi D-025-32647 Federal	
he following facts are submitted in upport of downhole commingling:	Upper Zono	Intermediate Zones	Lower Zone
Pool Name and	Vacuum; Blinebry 61850	Vacuum: Abo 61760	
. Top and Bottom of Pay Section (Perforations)	6412 - 6712'	8383 - 9252'	
3. Type of production (Oil or Gas)	Oil	Oil	
Method of Production (Flowing or Artificial Lift)			
5. Bottomhole Pressure Dil Zones - Artificial Lift: Estimated Current	a. (Current) 500	a. 500	8.
Gas & Oil - Flowing: Estimated Current Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b.
6. Oil Gravity (°API) or Gas BTU Content	38	38	
7. Producing or Shut-In?	Producing	Producing	
Production Marginal? (yes or no)	Yes	Yes	Date:
 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 	Date: Rates:	Rates:	Rates:
 If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: 3/20/99 Rates: 21/27/38	Date: 3/20/99 Rates: 9/24/10	Date: Rates:
B. Fixed Percentage Allocation Formula -% for each zone	Oil: 44.7 % Gas: 32.1 %	Oii: 19.2 % Gas: 28.6 %	Oil: Gas: %
O. Are all working, overriding, a If not, have all working, ove Have all offset operators been	and royalty interests identical rriding, and royalty interests be given written notice of the p	current or past production, or is ng method and providing rate po in all commingled zones? seen notified by certified mail? roposed downhole commingling	X Yes — No Yes — No Yes — No No
		s compatible, will the formations rmula be reliable Yes	
		ible with each other?	
		? Yes \underline{X} No (If Yands, either the Commissioner of field in writing of this application	•
		fied in writing of this application ORDER NO(S).	
6. ATTACHMENTS: * C-102 for each zo * Production curve * For zones with no * Data to support a * Notification list of	one to be commingled showing for each zone for at least one production history, estimated location method or formula.	g its spacing unit and acreage of year. (If not available, attach of production rates and supportion alty interests for uncommon into required to support commingling the support commingling its support comming in the required to support comming in the support comming in the support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support comming its support committees and support committees are supported in the support committees and support committees are supported in the support committees and support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in the support committees are supported in th	dedication. explaination.) ng data.
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