

Mid-Continent Region Production United States 6/14/26

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PUC 1241

P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

Mr David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

RE: Amend Order # CTB 397

Marathon Oil Co. requests an exception to Rule 303 (Segregation of Production from Pools). Marathon is authorized under the referenced order to surface commingle South Dagger Draw/Upper Penn Associated production from the leases referenced in the order. A copy of the referenced order is attached.

Marathon is requesting that the order be amended to allow surface commingling of Indian Basin Upper Penn production as well. The leases involved are the same as listed on the referenced order. All well presently producing into the commingled battery are South Dagger Draw Upper Penn Associated producers. The two Indian Basin Upper Penn wells which will be added are the Comanche Federal "3" # 1 and, N. Indian Basin Unit Gas Com # 3. Both wells are included in the order CTB 397 for off lease measurement and storage. Both wells produce minimal amounts of oil. Production allocation will be as per the detailed attachment. Hydrocarbon value will not be lowered by the proposed commingling. All production will be metered prior to commingling. Production data and value calculations are also attached along with lease and flow diagrams.

Sincerely

Thomas M. Price

Advanced Engineering Technician

	NO. of Wells	Avg Daily Prod. BPD	API Gravity	Selling Price	Income Per Day
South Dagger Draw Upper Penn Assoc.	34	5250	43.0	\$20.25	\$106,313
Indian Basin Upper Penn	2	2	47.5	\$20.25	\$41
Commingled Gravity			43.0		
Total Revenue of Crude Sold From Seperate Source					\$106,353
Commingled Values					\$106,353
Loss In Value As a Result of Commingling					\$0

Upper Penn Commingling Application North Indian Basin Unit, Stinking Draw, Bone Flats Federal 12 & MOC Federal, North Indian Basin Unit Com South Dagger Draw Field Eddy County, New Mexico

Production Allocation - Lease

OIL

Daily gross production for the consolidated facility will be based on daily oil sales and daily tank gauges.

Production = Oil Sales + (Tank Gauge Change)

Daily oil production will be allocated back to each property based on its daily oil meter readings and the gross daily production.

North IndianBasin Unit Production = (sum of oil readings from North Indian Basin Unit) X Gross Consolidated Facility Production (Sum of all oil readings)

Bone Flats Federal 12 = <u>(sum of oil readings from Bone Flats Federal 12)</u> X Gross Consolidated Facility Production (Sum of all oil readings)

MOC Federal (<u>sum of oil readings from MOC Fed</u>) X Gross Consolidated Facility Production (Sum of all oil readings)

Stinking Draw = (sum of oil readings from Stinking Draw) X Gross Consolidated Facility Production (Sum of all oil readings)

North Indian Basin Unit "Com" = North Indian Basin Unit Com NM-SW 242
Sum of all oil readings

GAS

Monthly production for the consolidated facility based on the six inch gas meter (master meter) located at the discharge of the dehydration unit.

Monthly gas production will be allocated back to each property will be based on its monthly gas meter readings and the gross monthly production.

North IndianBasin Unit Production = (<u>sum of oil readings from North Indian Basin Unit</u>) X Gross Consolidated Facility Production (Monthly Master Gas Readings)

Bone Flats Federal 12 = <u>(sum of oil readings from Bone Flats Federal 12)</u> X Gross Consolidated Facility Production (Monthly Master Gas Readings)

MOC Federal (sum of oil readings from MOC Fed) X Gross Consolidated Facility Production (Monthly Master Gas Readings)

Stinking Draw = (sum of oil readings from Stinking Draw) X Gross Consolidated Facility Production (Monthly Master Gas Readings)

North Indian Basin Unit "Com" ≈ North Indian Basin Unit Com NM-SW 242 (Monthly Master Gas Readings)

Production Allocation - Well

The production attributable to wells within a specific lease which are not individually metered shall be allocated as follows:

Well production = <u>Production well test</u> X lease allocated production sum of all production well tests

Upper Penn Commingling Application North Indian Basin Unit, Stinking Draw, Bone Flats Federal 12 & MOC Federal, North Indian Basin Unit Com South Dagger Draw Field Eddy County, New Mexico

Production Facilities - Zone

Wells producing from the same zone will be connected to a production header. Each production header will be equipped with a three-phase production vessel to separate and meter oil, gas and water production.

*Oil production will be metered through a positive displacement meter. The on-resetting counter head will measure fluids in barrels. Taps will be installed to accommodate meter proving. The meter will be installed between the separator and dump valve to maintain a constant head pressure on the meter.

*Water production will be metered utilizing turbine meters. Taps will be installed to accommodate meter proving.

*Gas production will be measured using a gas meter run and three-pen charterecorder (static, differential and temperature).

After separation oil, gas and water will be delivered to the consolidated battery.

Production Facilities - Test facilities

Wells will be periodically tested using a common test vessel. All lease production will separated and metered in the same manner as described above. However, after metering the fluid will be recombined and returned to the wells respective production vessel for final separation and metering.

Production Facilities - Consolidated battery

Oil production delivered to the consolidated battery will be further processed through—a heater treater prior to storage at the tank battery. Sales will be accomplished through a LACT Unit.

Water production from the field will be stored in tankage at the consolidated facility and then pumped into a disposal system.

Gas production delivered to the consolidated facility will be further processed througher dehydrator after compression but prior to delivery to a common trunkline system for further processing at a gas processing plant.

OIL CONSERVATION DIVISION

XC: TMP TEG TIE

AMENDED COMMINGLING ORDER CTB-397

Marathon Oil Company P.O. Box 552 Midland, Texas 79702-0559

Attention: Mr. R.A. Biernbaum

The above named company is hereby authorized to commingle Indian Basin Upper Penn Pool production from the following leases:

Lease: North Indian

North Indian Basin Unit (Including Com # NM-SW 242)

Including:

Federal Lease Nos. NM-0487-B, NM-05608, NM-05551,

NM-05551-B and NM-SW242; State Lease Nos. E-7906 and E-10170

Description:

Section 2, S/2 Section 3, Section 10 and Section 11, Twp 21-S, Rge 23-E

Lease:

Comanche Federal Lease (Including Com # NM-SW 242)

Including:

Federal Lease No. NM-04827-B and NM-34623

Description:

N/2 of Section 3, Twp 21-S, Rge 23-E

Lease:

Bone Flats Federal 12 Lease

Including:

Federal Lease Nos. NM-05608, NM-81677 and NM-05551-A.

Description:

Section 2, Twp 21-S, Rge 23-E

Lease:

MOC Federal Lease

Including:

Federal Lease No. NM-04827-B

Description:

Sections 1, Twp 21-S, Rge 23-E

Lease:

Stinking Draw Lease

Including:

State Lease Nos. K-1877 and E-10169-1

Description:

Section 36, Twp 20 1/2-S, Rge 23-E

All in Eddy County, New Mexico.

Production shall be allocated to each lease by separately metering the production from each pool prior to commingling.

NOTE: The commingled production shall be stored in the 'MOC Central' tank battery facility located in Unit Letter D of Section 1, Township 21 South, Range 23 East.

NOTE: This installation shall be installed and operated in accordance with the applicable provisions of Rule 303 of the Division Rules and Regulations and the Division "Manual for the Installation and Operation of Commingling Facilities." If is the responsibility of the producer to notify the transporter of this commingling authority.

FURTHER: The operator shall notify the supervisor of the Artesia district office prior to implementation of the commingling process.

PROVIDING: <u>Validation of this authority shall be accomplished by like approval by the New Mexico Commissioner of Public Lands and the U.S. Bureau of Land Management</u>.

DONE at Santa Fe, New Mexico, on this 19th day of January, 1996.

WILLIAM J. LEMAY, Division Director

cc: Oil Conservation Division - Artesia State Land Office - Oil & Gas Division U.S. Bureau of Land Management - Carlsbad