

DATE IN 9/23/2014	SUSPENSE	ENGINEER MAM	LOGGED IN 9/23/2014	TYPE CTB	APP NO. PMANN 26649744
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

CTB 733
- COG OPERATING 22 4137

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☐ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☒ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or ☐ Does Not Apply
- [A] ☒ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached

Cadillac State
 1 API# 30-015-40924
 2 API# 30-015-40923
 3 API# 30-015-41450
 4 API# 30-015-41451
 5 API# 30-015-41452
 6 API# 30-015-41453
 7 API# 30-015-41456
 8 API# 30-015-41490

POW
- EMPIRE
Gloria et al. esd
East
4660

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Kanicia Castillo</u>	<u><i>KC</i></u>	<u>Lead Regulatory Analyst</u>	<u>9/15/14</u>
Print or Type Name	Signature	Title	Date
		<u>kcastillo@concho.com</u>	
		e-mail Address	



September 22, 2014

New Mexico Oil Conservation Division
Michael McMillan
1220 S St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED COG

2014 SEP 23 PM 1:30

RE: Request for Surface Commingle

Mr. McMillan,

COG Operating LLC respectfully requests approval for Surface Commingle on our Cadillac State #4 Central Tank Battery.

Common Ownership:

Cadillac State #1
Eddy County, NM
2310' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40924

Cadillac State #2
Eddy County, NM
2185' FSL & 1700' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40923

Cadillac State #3
Eddy County, NM
1735' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41450

Cadillac State #4 (**Battery Location**)
Eddy County, NM
1650' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41451

Common Ownership:

Cadillac State #5
Eddy County, NM
865' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41452

Cadillac State #6
Eddy County, NM
1103' FSL & 1650'FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso,East 96610
API# 30-015-41453

Cadillac State #7
Eddy County, NM
330'FSL & 2310'FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41456

Cadillac State #8
Eddy County, NM
330'FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41490

Consolidating our battery facilities will extend the economic life for these wells and lessen surface disturbance. The wells located in Unit K have common ownership and the wells located in Unit N have common ownership. We will meter each unit separately then use a test separator to allocate production within the units. Commingling will not reduce the value of production.

I have attached 6 months of production data on the wells that are currently producing, a diagram of the battery facility, a map showing the well locations, Affidavit of Fact, and the location of the CTB, admin checklist, and notice to all interest owners.

Please contact me at 432-685-4332 should you have any questions.

Sincerely,



Kanicia Castillo
432.685.4332
Lead Regulatory Analyst
COG Operating LLC

District I
1625 N. French Drive, Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St Francis Dr, Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107-B
Revised August 1, 2011

OIL CONSERVATION DIVISION
1220 S. St Francis Drive
Santa Fe, New Mexico 87505

Submit the original
application to the Santa Fe
office with one copy to the
appropriate District Office.

APPLICATION FOR SURFACE COMMINGLING (DIVERSE OWNERSHIP)

OPERATOR NAME: COG Operating LLC
OPERATOR ADDRESS: One Concho Center, 600 West Illinois Ave, Midland, Texas 79701
APPLICATION TYPE:

☐ Pool Commingling ☒ Lease Commingling ☐ Pool and Lease Commingling ☐ Off-Lease Storage and Measurement (Only if not Surface Commingled)

LEASE TYPE: ☐ Fee ☒ State ☐ Federal

Is this an Amendment to existing Order? ☐ Yes ☒ No If "Yes", please include the appropriate Order No. _____
Have the Bureau of Land Management (BLM) and State Land office (SLO) been notified in writing of the proposed commingling
☒ Yes ☐ No

(A) POOL COMMINGLING

Please attach sheets with the following information

(1) Pool Names and Codes	Gravities / BTU of Non-Commingled Production	Calculated Gravities / BTU of Commingled Production		Calculated Value of Commingled Production	Volumes

(2) Are any wells producing at top allowables? ☐ Yes ☐ No

(3) Has all interest owners been notified by certified mail of the proposed commingling? ☐ Yes ☐ No.

(4) Measurement type: ☐ Metering ☐ Other (Specify)

(5) Will commingling decrease the value of production? ☐ Yes ☐ No If "yes", describe why commingling should be approved

(B) LEASE COMMINGLING

Please attach sheets with the following information

(1) Pool Name and Code. Empire; Glorieta-Yeso, East (96610)

(2) Is all production from same source of supply? ☒ Yes ☐ No

(3) Has all interest owners been notified by certified mail of the proposed commingling? ☒ Yes ☐ No

(4) Measurement type: ☒ Metering ☐ Other (Specify)

(C) POOL and LEASE COMMINGLING

Please attach sheets with the following information

(1) Complete Sections A and E.

(D) OFF-LEASE STORAGE and MEASUREMENT

Please attach sheets with the following information

(1) Is all production from same source of supply? ☐ Yes ☐ No

(2) Include proof of notice to all interest owners.

(E) ADDITIONAL INFORMATION (for all application types)

Please attach sheets with the following information

(1) A schematic diagram of facility, including legal location.

(2) A plat with lease boundaries showing all well and facility locations. Include lease numbers if Federal or State lands are involved.

(3) Lease Names, Lease and Well Numbers, and API Numbers.

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

SIGNATURE: K C TITLE: Lead Regulatory Analyst DATE: 9/15/14

TYPE OR PRINT NAME Kanicia Castillo TELEPHONE NO.: 432-685-4332

E-MAIL ADDRESS: kcastillo@concho.com

District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40924	² Pool Code 96610	³ Pool Name Empire;Glorieta-Yeso, East
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁶ Well Number 1
		⁹ Elevation 3576'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	17-S	29-E		2310	SOUTH	2310	WEST	EDDY

¹¹ 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ 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.

¹⁶ (B) CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND 1/2" REBAR N 670039.5 - E 580643.6 C: FND 3/4" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 2310' S.L. GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 667066.9 E 582960.9 LAT: 32.833562° N LONG: 104.063241° W 2310' (A) (F) (E)	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Chasity Jackson</i> 8/18/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address ¹⁸ 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. 4/24/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40923	² Pool Code 96610	³ Pool Name Empire;Glorieta-Yeso, East
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	
⁷ OGRID No. 229137	⁶ Operator Name COG OPERATING, LLC	⁸ Well Number 2
		⁹ Elevation 3568'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	17-S	29-E		2185	SOUTH	1700	WEST	EDDY

11 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
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code		¹⁵ 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.

⑧ CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND ½" REBAR N 670039.5 - E 580643.6 C: FND ¾" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 ⑨ GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 666941.4 E 582351.4 LAT: 32.833221° N LONG: 104.065227° W 1700' S.L. 2185' ⑩	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Chasity Jackson</i> 8/18/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address
	18 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. 4/24/13 Date of Survey Signature and Seal of Professional Surveyor <i>Robert M. Howett</i> 19680 Certificate Number

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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41450	² Pool Code 96210	³ Pool Name Empire;Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁶ Well Number 3
		⁹ Elevation 3575'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	17-S	29-E		1735	SOUTH	2310	WEST	EDDY

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND 1/2" REBAR N 670039.5 - E 580643.6 C: FND 3/8" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 666492.1 E 582962.6 LAT: 32.831982° N LONG: 104.063241° W 2310' 1735' S.L.	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>C. Jackson</i> 8/18/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address 18 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. 4/23/13 Date of Survey Signature and Seal of Professional Surveyor: <i>Robert M. Howett</i> 19680 Certificate Number
--	---

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Phone (575) 393-6161 Fax (575) 393-0720
District II
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41451	² Pool Code 96210	³ Pool Name Empire; Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	⁶ Well Number 4
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3562'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	15	17-S	29-E		1650	SOUTH	1650	WEST	EDDY

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ (B) CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND 1/2" REBAR N 670039.5 - E 580643.6 C: FND 3/4" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 666406.5 E 582302.8 LAT: 32.831751° N LONG: 104.065389° W 1650' S.L. 1650' (A) (F) (E)	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>C Jackson</i> 4/28/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address
	¹⁸ 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. 4/23/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41452	² Pool Code 96210	³ Pool Name Empire; Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	⁶ Well Number 5
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3570'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	17-S	29-E		865	SOUTH	2310	WEST	EDDY

¹¹ 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

¹² Dedicated Acres 4.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

⑧ CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND ½" REBAR N 670039.5 - E 580643.6 C: FND ¾" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" P N 664757.8 - E 583298.3 ⑩ GEODETTIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 665622.3 E 582964.7 LAT: 32.829591° N LONG: 104.063241° W ⑨ 2310' S.L. 865' ⑦	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>C Jackson</i> 8/18/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address
	¹⁸ 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. 4/23/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number ROBERT M. HOWETT NEW MEXICO 19580 PROFESSIONAL SURVEYOR

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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41453	² Pool Code 96210	³ Pool Name Empire;Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	
		⁶ Well Number 6
		⁹ Elevation 3562'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	17-S	29-E		1103	SOUTH	1650	WEST	EDDY

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ (B) CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND 1/2" REBAR N 670039.5 - E 580643.6 C: FND 3/8" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 665859.8 E 582304.2 LAT: 32.830248° N LONG: 104.065389° W (A) (F) (E)	¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> Signature 8/18/14 Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address ¹⁸ 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> 4/24/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number
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District I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax (575) 748-9720

District III
1009 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6178 Fax (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41456	² Pool Code 96210	³ Pool Name Empire; Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	⁶ Well Number 7
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3570'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	17-S	29-E		330	SOUTH	2310	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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND 1/2" REBAR N 670039.5 - E 580643.6 C: FND 3/8" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 665087.5 E 582966.2 LAT: 32.828121' N LONG: 104.063241' W 2310' 330'	" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Chasity Jackson</i> 4/4/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address
	"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. 4/22/13 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41490	² Pool Code 96210	³ Pool Name Empire; Glorieta-Yeso
⁴ Property Code 39952	⁵ Property Name CADILLAC STATE	⁶ Well Number 8
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3556'

¹⁰ Surface Location

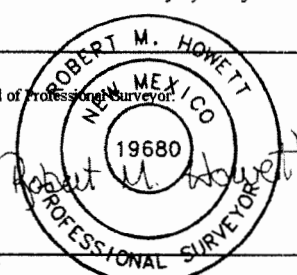
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	17-S	29-E		330	SOUTH	1650	WEST	EDDY

¹¹ 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

¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

¹⁶ ⑧ CORNER DATA NAD 27 GRID - NM EAST A: FND GLO BC 1914 N 664755.4 - E 580657.6 B: FND ½" REBAR N 670039.5 - E 580643.6 C: FND ¾" REBAR N 670044.8 - E 585932.4 D: FND BC 1914 N 667404.9 - E 585938.8 E: FND BC 1914 N 664760.6 - E 585945.4 F: FND 1" IP N 664757.8 - E 583298.3 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 665086.9 E 582306.3 LAT: 32.828124° N LONG: 104.065389° W 1650' S.L. 330' ⑨	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>C Jackson</i> 8/18/14 Signature Date Chasity Jackson Printed Name cjackson@concho.com E-mail Address ¹⁸ 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. 4/22/13 Date of Survey Signature and Seal of Professional Surveyor:  19680 Certificate Number
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CADILLAC STATE 4 BATTERY
 NESW SECTION 15, T17S, R29E, UNIT K
 EDDY COUNTY, NM

WELLS:

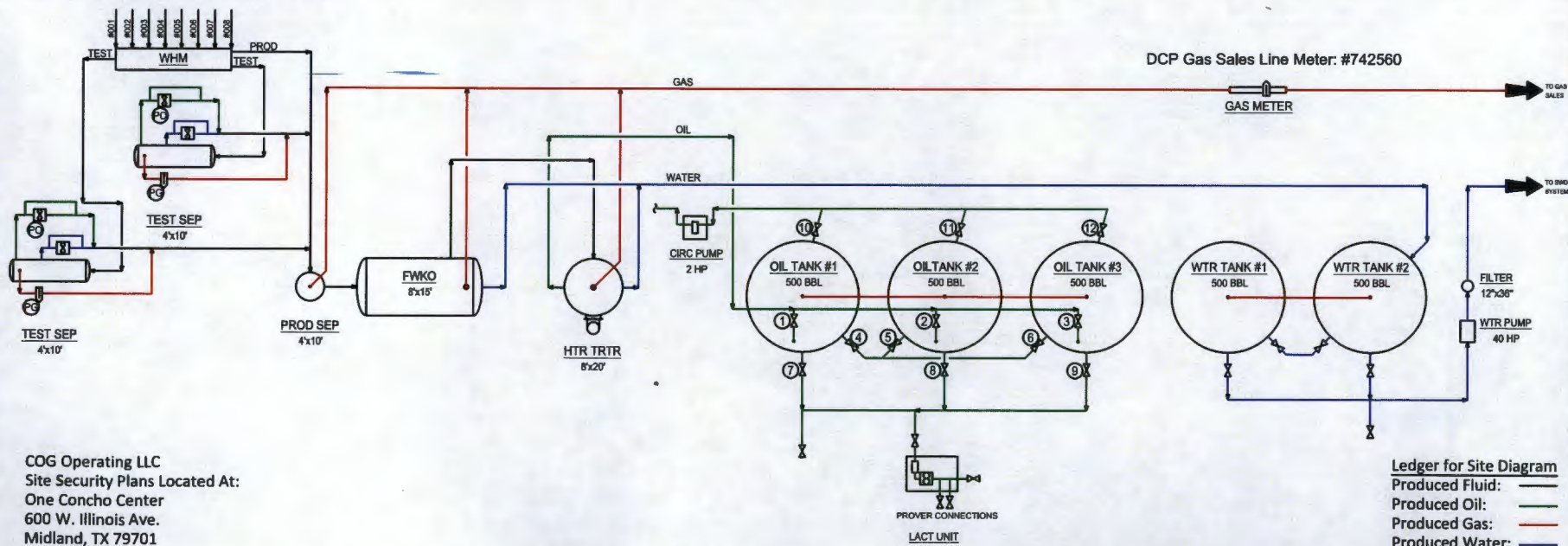
CADILLAC STATE #001, API#: 30-015-40924
 CADILLAC STATE #002, API#: 30-015-40923
 CADILLAC STATE #003, API#: 30-015-41450
 CADILLAC STATE #004, API#: 30-015-41451
 CADILLAC STATE #005, API#: 30-015-41452
 CADILLAC STATE #006, API#: 30-015-41453
 CADILLAC STATE #007, API#: 30-015-41456
 CADILLAC STATE #008, API#: 30-015-41490

Production Phase - Oil Tank #1

- Valve 1 open
- Valves 2 and 3 closed
- Valves 4, 5, and 6 open
- Valves 7, 8, and 9 closed
- Valves 10, 11, and 12 closed

Sales Phase - Oil Tank #1

- Valve 1 closed
- Valves 2 or 3 open
- Valve 4 closed
- Valves 5 and 6 open
- Valve 7 open
- Valves 8 and 9 closed
- Valves 10, 11, and 12 closed



COG Operating LLC
 Site Security Plans Located At:
 One Concho Center
 600 W. Illinois Ave.
 Midland, TX 79701

Ledger for Site Diagram
 Produced Fluid: —
 Produced Oil: —
 Produced Gas: —
 Produced Water: —

NOTES

Type of Lease: State
 Property Code: 39952
 OGRID #: 229137

CONFIDENTIALITY NOTICE
 THIS DRAWING IS PROPERTY
 OF COG OPERATING LLC AND
 IS LOANED TO THE ADDRESSEE
 FOR CONSTRUCTION USE ONLY
 AND IS SUBJECT TO RETURN
 UPON REQUEST AND SHALL
 NOT BE REPRODUCED,
 COPIED, LENT OR OTHERWISE
 DISCLOSED TO ANY OTHER
 PARTY WITHOUT THE WRITTEN
 PERMISSION OF COG OPERATING
 LLC.

REFERENCE DRAWINGS

NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK.	APP.
A		A	06/04/12	ISSUE FOR SITE PERMITS	CHS		
B		B	06/26/14	UPDATED FOR CADILLAC STATE 4 BATTERY	CHS		

COG OPERATING LLC
 600 WEST ILLINOIS AVENUE
 MIDLAND, TEXAS 79701

REVISIONS

NO.	DATE	DESCRIPTION	BY	CHK.	APP.
A	06/04/12	ISSUE FOR SITE PERMITS	CHS		
B	06/26/14	UPDATED FOR CADILLAC STATE 4 BATTERY	CHS		

DESIGN/REVISION RECORD

BY	DATE
CHS	06/04/12
CHS	06/26/12
CHS	
APP:	
APR NO:	
PAUL BIRD	C. BLEDSOE
OPER BIRD	VARIES
SCALE	NONE

CONCHO
 NEW MEXICO SHELF ASSET
 PRODUCTION FACILITIES
 SITE FACILITY DIAGRAM
 CADILLAC STATE 4 BATTERY

EDDY COUNTY
 TOWNSHIP/RANGE
 MULTIPLE

DWG NO. D-1700-01-005
 REV B

Cadillac State Battery





Return Receipt Requested
Receipt: 91 7199 7771 7033 8258 7448

Mr. Paul Mershon Jr.
1631 Loma St.
Santa Barbara, CA 93103

RE: Request for Surface Commingle

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for Surface Commingle of production from the following wells to the Cadillac State #4 Central Tank Battery:

Common Ownership:

Cadillac State #1
Eddy County, NM
2310' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40924

Cadillac State #2
Eddy County, NM
2185' FSL & 1700' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40923

Cadillac State #3
Eddy County, NM
1735' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41450

Cadillac State #4 (**Battery Location**)
Eddy County, NM
1650' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41451

Common Ownership:

Cadillac State #5
Eddy County, NM
865' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41452

Cadillac State #6
Eddy County, NM
1103' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41453

Cadillac State #7
Eddy County, NM
330' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41456

Cadillac State #8
Eddy County, NM
330' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41490

A copy of the application is attached for your reference. Should you, or your company, have any objection, it must be filed in writing within twenty (20) days from the date of this notice to the New Mexico Oil Conservation Division at the following address: 1220 S St. Francis Drive, Santa Fe, New Mexico 87505. The Division Director may approve the Surface Commingle if no objection has been made within the 20 days after the application has been received. Please do not hesitate to reach us with any questions at the phone number given below

Sincerely,

Kanicia Castillo
432.685.4332
Lead Regulatory Analyst
COG Operating LLC



Return Receipt Requested
Receipt: 91 7199 7771 7033 8258 7455

Mr. Vincent Shryacak
2510 Elmhurst Dr.
Longmont, CO 80503

September 17, 2015

RE: Request for Surface Commingle

To Whom It May Concern:

This letter will serve as notice under Rule 104.F (3) that COG Operating LLC has requested administrative approval from the Oil Conservation Division in Santa Fe, NM for Surface Commingle of production from the following wells to the Cadillac State #4 Central Tank Battery:

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Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40924

Cadillac State #2
Eddy County, NM
2185' FSL & 1700' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-40923

Cadillac State #3
Eddy County, NM
1735' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41450

Cadillac State #4 (**Battery Location**)
Eddy County, NM
1650' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit K
Empire;Glorieta-Yeso, East 96610
API# 30-015-41451

Common Ownership:

Cadillac State #5
Eddy County, NM
865' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41452

Cadillac State #6
Eddy County, NM
1103' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41453

Cadillac State #7
Eddy County, NM
330' FSL & 2310' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41456

Cadillac State #8
Eddy County, NM
330' FSL & 1650' FWL
Sec. 15, T17S, R29E, Unit N
Empire;Gloreita-Yeso, East 96610
API# 30-015-41490

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Sincerely,

Kanicia Castillo
432.685.4332
Lead Regulatory Analyst
COG Operating LLC

Cadillac State #4
Production Data

Daily Prod Entity Name	Prod Date	Oil Volume	Gas Volume	Water Volume
CADILLAC STATE #4	08/31/2014	62.4700	69.0000	72.0000
CADILLAC STATE #4	08/30/2014	87.3800	55.0000	68.0000
CADILLAC STATE #4	08/29/2014	77.8900	85.0000	87.0000
CADILLAC STATE #4	08/28/2014	53.2700	65.0000	83.0000
CADILLAC STATE #4	08/27/2014	57.1600	91.0000	105.0000
CADILLAC STATE #4	08/26/2014	84.3500	101.0000	108.0000
CADILLAC STATE #4	08/25/2014	43.9900	97.0000	81.0000
CADILLAC STATE #4	08/24/2014	50.4400	95.0000	84.0000
CADILLAC STATE #4	08/23/2014	26.9400	100.0000	76.0000
CADILLAC STATE #4	08/22/2014	17.6200	116.0000	121.0000
CADILLAC STATE #4	08/21/2014	52.0400	83.0000	93.0000
CADILLAC STATE #4	08/20/2014	60.1000	98.0000	127.0000
CADILLAC STATE #4	08/19/2014	30.3900	64.0000	135.0000
CADILLAC STATE #4	08/18/2014	103.2000	63.0000	73.0000
CADILLAC STATE #4	08/17/2014	37.0200	55.0000	84.0000
CADILLAC STATE #4	08/16/2014	63.0400	73.0000	74.0000
CADILLAC STATE #4	08/15/2014	15.0100	59.0000	80.0000
CADILLAC STATE #4	08/14/2014	39.5000	65.0000	120.0000
CADILLAC STATE #4	08/13/2014	34.1400	52.5100	65.0000
CADILLAC STATE #4	08/12/2014	85.1400	60.0000	102.0000
CADILLAC STATE #4	08/11/2014	52.0500	64.0000	64.0000
CADILLAC STATE #4	08/10/2014	52.9000	66.8700	142.0700
CADILLAC STATE #4	08/09/2014	48.2700	68.0000	152.0000
CADILLAC STATE #4	08/08/2014	79.3200	63.0000	142.0000
CADILLAC STATE #4	08/07/2014	33.0400	37.0000	85.0000
CADILLAC STATE #4	08/06/2014	89.7300	93.0000	155.0000
CADILLAC STATE #4	08/05/2014	55.1400	89.9600	103.0000
CADILLAC STATE #4	08/04/2014	54.9100	77.4900	105.7200
CADILLAC STATE #4	08/03/2014	56.3500	82.0000	110.0000
CADILLAC STATE #4	08/02/2014	67.0800	91.0000	46.0000
CADILLAC STATE #4	08/01/2014	71.7800	72.0000	105.0000
Monthly Average:		56.1826	75.8332	98.3158
CADILLAC STATE #4	07/31/2014	96.2200	87.0000	61.4900
CADILLAC STATE #4	07/30/2014	33.2000	75.0000	102.0000
CADILLAC STATE #4	07/29/2014	47.1500	91.0000	91.0000
CADILLAC STATE #4	07/28/2014	51.5100	90.0000	168.0000
CADILLAC STATE #4	07/27/2014	77.7900	134.8800	116.7000
CADILLAC STATE #4	07/26/2014	84.1900	152.9300	142.6000
CADILLAC STATE #4	07/25/2014	110.1400	168.1100	123.2900
CADILLAC STATE #4	07/24/2014	91.9200	162.5400	155.9600
CADILLAC STATE #4	07/23/2014	68.1700	147.8000	116.3800
CADILLAC STATE #4	07/22/2014	76.2100	141.6000	139.2000
CADILLAC STATE #4	07/21/2014	100.6100	166.1700	161.3600
CADILLAC STATE #4	07/20/2014	89.7000	182.0000	144.0000
CADILLAC STATE #4	07/19/2014	86.0000	146.8000	144.0300
CADILLAC STATE #4	07/18/2014	87.4400	139.4200	165.0400
CADILLAC STATE #4	07/17/2014	98.7300	166.8900	171.6600
CADILLAC STATE #4	07/16/2014	115.8700	164.5900	208.4000
CADILLAC STATE #4	07/15/2014	148.4600	164.6100	179.0500
CADILLAC STATE #4	07/14/2014	139.5500	163.2600	213.0800
CADILLAC STATE #4	07/13/2014	10.6000	30.4500	87.3300
CADILLAC STATE #4	07/12/2014	12.8300	29.6700	87.0500
CADILLAC STATE #4	07/11/2014	8.6500	28.5100	97.7200
CADILLAC STATE #4	07/10/2014	5.8500	28.0700	29.3200
CADILLAC STATE #4	07/09/2014	126.7000	154.0000	174.0000
CADILLAC STATE #4	07/08/2014	119.1200	134.0000	181.0000
CADILLAC STATE #4	07/07/2014	83.5200	150.0500	154.8000
CADILLAC STATE #4	07/06/2014	96.5900	158.1000	156.0000
CADILLAC STATE #4	07/05/2014	73.0600	161.0000	136.0000

Cadillac State #4
Production Data

CADILLAC STATE #4	07/04/2014	112.9800	113.6700	165.9000
CADILLAC STATE #4	07/03/2014	81.3400	121.6000	148.6900
CADILLAC STATE #4	07/02/2014	80.3900	160.6000	162.0600
CADILLAC STATE #4	07/01/2014	87.9200	81.0000	128.0000
Monthly Average:		80.7229	125.6555	139.0681
CADILLAC STATE #4	06/30/2014	71.8000	103.0000	117.0000
CADILLAC STATE #4	06/29/2014	108.0800	89.0000	120.0000
CADILLAC STATE #4	06/28/2014	93.2300	115.0000	192.0000
CADILLAC STATE #4	06/27/2014	85.7900	110.0000	177.0000
CADILLAC STATE #4	06/26/2014	156.8900	364.6800	131.4900
CADILLAC STATE #4	06/25/2014	85.5600	190.6500	215.0000
CADILLAC STATE #4	06/24/2014	112.6300	166.0000	169.0000
CADILLAC STATE #4	06/23/2014	133.8300	143.7900	139.2700
CADILLAC STATE #4	06/22/2014	140.4000	146.9200	169.6700
CADILLAC STATE #4	06/21/2014	120.8600	142.4800	155.7700
CADILLAC STATE #4	06/20/2014	108.4300	143.0000	151.1800
CADILLAC STATE #4	06/19/2014	142.0300	138.8800	165.5700
CADILLAC STATE #4	06/18/2014	152.2100	143.0000	155.0000
CADILLAC STATE #4	06/17/2014	107.0600	140.0000	153.0000
CADILLAC STATE #4	06/16/2014	124.0800	114.2600	157.5100
CADILLAC STATE #4	06/15/2014	129.4500	101.0000	143.0000
CADILLAC STATE #4	06/14/2014	101.6400	87.0300	172.4000
CADILLAC STATE #4	06/13/2014	72.0900	141.1900	135.3100
CADILLAC STATE #4	06/12/2014	91.5500	101.0000	188.0000
CADILLAC STATE #4	06/11/2014	54.5800	106.0200	181.2300
CADILLAC STATE #4	06/10/2014	135.2400	133.0000	170.0000
CADILLAC STATE #4	06/09/2014	102.7100	50.5300	187.8900
CADILLAC STATE #4	06/08/2014	115.5600	46.6800	183.4300
CADILLAC STATE #4	06/07/2014	83.5800	46.0500	190.3400
CADILLAC STATE #4	06/06/2014	89.3900	52.5300	157.1700
CADILLAC STATE #4	06/05/2014	110.1800	50.9400	183.2200
CADILLAC STATE #4	06/04/2014	113.3000	51.7900	189.6100
CADILLAC STATE #4	06/03/2014	105.5000	53.4800	192.0300
CADILLAC STATE #4	06/02/2014	101.4300	50.8100	192.9300
CADILLAC STATE #4	06/01/2014	195.0200	50.5600	180.2900
Monthly Average:		111.4700	112.4423	167.1770
CADILLAC STATE #4	05/31/2014	19.4900	106.0000	180.0000
CADILLAC STATE #4	05/30/2014	93.0100	83.0000	176.0000
CADILLAC STATE #4	05/29/2014	69.1200	106.0000	158.0000
CADILLAC STATE #4	05/28/2014	146.1700	83.0000	184.0000
CADILLAC STATE #4	05/27/2014	107.3000	98.5400	156.7800
CADILLAC STATE #4	05/26/2014	131.4800	99.0000	167.0000
CADILLAC STATE #4	05/25/2014	167.5600	109.0000	162.0000
CADILLAC STATE #4	05/24/2014	75.1000	108.0000	184.4500
CADILLAC STATE #4	05/23/2014	64.0800	158.0000	199.0000
CADILLAC STATE #4	05/22/2014	96.7100	223.0000	256.0000
CADILLAC STATE #4	05/21/2014	316.6900	448.0000	235.0000
CADILLAC STATE #4	05/20/2014	177.4100	311.0000	250.3400
CADILLAC STATE #4	05/19/2014	132.9700	209.9500	217.0500
CADILLAC STATE #4	05/18/2014	119.1200	144.0000	257.2400
CADILLAC STATE #4	05/17/2014	130.1000	157.0000	194.0000
CADILLAC STATE #4	05/16/2014	130.5100	173.0000	172.0000
CADILLAC STATE #4	05/15/2014	136.3200	231.8200	212.0000
CADILLAC STATE #4	05/14/2014	124.7400	198.0000	226.0000
CADILLAC STATE #4	05/13/2014	167.0800	211.0000	220.0000
CADILLAC STATE #4	05/12/2014	152.3600	155.0000	211.0000
CADILLAC STATE #4	05/11/2014	166.5200	208.0000	245.0000
CADILLAC STATE #4	05/10/2014	141.3600	216.0000	251.0000
CADILLAC STATE #4	05/09/2014	128.0400	120.0000	187.0000
CADILLAC STATE #4	05/08/2014	112.4000	63.0000	230.0000
CADILLAC STATE #4	05/07/2014	220.1800	287.9800	369.3800

Cadillac State #4
Production Data

CADILLAC STATE #4	05/06/2014	204.6600	300.0000	280.0000
CADILLAC STATE #4	05/05/2014	190.8400	300.0000	298.0000
CADILLAC STATE #4	05/04/2014	212.6400	290.0000	233.0000
CADILLAC STATE #4	05/03/2014	191.4400	309.0000	326.0000
CADILLAC STATE #4	05/02/2014	201.9500	307.0000	333.0000
CADILLAC STATE #4	05/01/2014	176.7400	270.0000	297.0000
Monthly Average:		145.2932	196.2352	227.9755
CADILLAC STATE #4	04/30/2014	190.5500	278.0000	293.0000
CADILLAC STATE #4	04/29/2014	227.8300	335.0000	301.0000
CADILLAC STATE #4	04/28/2014	162.9300	200.0000	298.0000
CADILLAC STATE #4	04/27/2014	150.2600	149.0000	285.0000
CADILLAC STATE #4	04/26/2014	109.8300	184.0000	264.0000
CADILLAC STATE #4	04/25/2014	147.3400	188.0000	293.0000
CADILLAC STATE #4	04/24/2014	130.3100	177.0000	280.0000
CADILLAC STATE #4	04/23/2014	168.5100	219.0000	323.0000
CADILLAC STATE #4	04/22/2014	353.6800	398.0000	261.0000
CADILLAC STATE #4	04/21/2014	111.3300	76.0000	249.0000
CADILLAC STATE #4	04/20/2014	91.0100	69.0000	253.0000
CADILLAC STATE #4	04/19/2014	97.0300	57.0000	253.0000
CADILLAC STATE #4	04/18/2014	96.4000	58.0000	277.0000
CADILLAC STATE #4	04/17/2014	80.0800	45.0000	255.0000
CADILLAC STATE #4	04/16/2014	70.6700	55.0000	245.0000
CADILLAC STATE #4	04/15/2014	84.8900	52.0000	264.0000
CADILLAC STATE #4	04/14/2014	83.9200	54.0000	277.0000
CADILLAC STATE #4	04/13/2014	75.4300	50.0000	256.0000
CADILLAC STATE #4	04/12/2014	69.9900	44.0000	265.0000
CADILLAC STATE #4	04/11/2014	57.2400	2.0000	260.0000
CADILLAC STATE #4	04/10/2014	0.0000	0.0000	345.1400
CADILLAC STATE #4	04/09/2014	0.0000	0.0000	401.2500
CADILLAC STATE #4	04/08/2014	0.0000	0.0000	365.0000
CADILLAC STATE #4	04/07/2014	0.0000	0.0000	364.0000
CADILLAC STATE #4	04/06/2014	0.0000	0.0000	369.0000
CADILLAC STATE #4	04/05/2014	0.0000	0.0000	350.0000
CADILLAC STATE #4	04/04/2014	0.0000	0.0000	300.0000
CADILLAC STATE #4	04/03/2014	0.0000	0.0000	275.0000
CADILLAC STATE #4	04/02/2014	0.0000	0.0000	257.0000
CADILLAC STATE #4	04/01/2014	0.0000	0.0000	233.0000
Monthly Average:		85.3077	89.6667	290.3797
CADILLAC STATE #4	03/31/2014	0.0000	0.0000	252.0000
CADILLAC STATE #4	03/30/2014	0.0000	0.0000	267.0000
CADILLAC STATE #4	03/29/2014	0.0000	0.0000	300.0000
CADILLAC STATE #4	03/28/2014	0.0000	0.0000	320.0000
CADILLAC STATE #4	03/27/2014	0.0000	0.0000	335.0000
CADILLAC STATE #4	03/26/2014	0.0000	0.0000	300.0000
CADILLAC STATE #4	03/25/2014	0.0000	0.0000	300.0000
CADILLAC STATE #4	03/24/2014	0.0000	0.0000	323.0000
CADILLAC STATE #4	03/23/2014	0.0000	0.0000	300.0000
CADILLAC STATE #4	03/22/2014	0.0000	0.0000	303.0000
CADILLAC STATE #4	03/21/2014	0.0000	0.0000	251.0000
CADILLAC STATE #4	03/20/2014	0.0000	0.0000	303.0000
CADILLAC STATE #4	03/19/2014	0.0000	0.0000	138.0000
CADILLAC STATE #4	03/18/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/17/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/16/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/15/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/14/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/13/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/12/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/11/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/10/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/09/2014	0.0000	0.0000	0.0000

Cadillac State #4
Production Data

CADILLAC STATE #4	03/08/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/07/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/06/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/05/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/04/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/03/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/02/2014	0.0000	0.0000	0.0000
CADILLAC STATE #4	03/01/2014	0.0000	0.0000	0.0000
Monthly Average:		0.0000	0.0000	119.0968

Cadillac State #7
Production Data

Daily Prod Entity Name	Prod Date	Oil Volume	Gas Volume	Water Volume
CADILLAC STATE #7	08/31/2014	114.5300	227.0000	175.0000
CADILLAC STATE #7	08/30/2014	114.4900	226.0000	171.0000
CADILLAC STATE #7	08/29/2014	102.4900	230.0000	207.0000
CADILLAC STATE #7	08/28/2014	79.4100	225.0000	129.0000
CADILLAC STATE #7	08/27/2014	47.8000	153.0000	143.0000
CADILLAC STATE #7	08/26/2014	92.3900	207.0000	139.0000
CADILLAC STATE #7	08/25/2014	85.9900	207.0000	137.0000
CADILLAC STATE #7	08/24/2014	86.4600	213.0000	138.0000
CADILLAC STATE #7	08/23/2014	87.8100	216.0000	145.0000
CADILLAC STATE #7	08/22/2014	100.5500	220.0000	159.0000
CADILLAC STATE #7	08/21/2014	111.0700	222.0000	169.0000
CADILLAC STATE #7	08/20/2014	100.1600	231.0000	177.0000
CADILLAC STATE #7	08/19/2014	86.9800	211.0000	121.0000
CADILLAC STATE #7	08/18/2014	90.1800	215.0000	135.0000
CADILLAC STATE #7	08/17/2014	85.3500	218.0000	126.0000
CADILLAC STATE #7	08/16/2014	89.0600	225.0000	136.0000
CADILLAC STATE #7	08/15/2014	90.0400	232.0000	142.0000
CADILLAC STATE #7	08/14/2014	91.8100	240.0000	138.0000
CADILLAC STATE #7	08/13/2014	83.3300	270.4900	135.0000
CADILLAC STATE #7	08/12/2014	108.1700	249.0000	173.0000
CADILLAC STATE #7	08/11/2014	97.0800	230.0000	157.0000
CADILLAC STATE #7	08/10/2014	110.2100	230.1300	86.9300
CADILLAC STATE #7	08/09/2014	95.5400	236.0000	120.0000
CADILLAC STATE #7	08/08/2014	100.4000	244.0000	120.0000
CADILLAC STATE #7	08/07/2014	94.1200	252.0000	130.0000
CADILLAC STATE #7	08/06/2014	135.6200	268.0000	120.0000
CADILLAC STATE #7	08/05/2014	111.2900	249.0400	162.0000
CADILLAC STATE #7	08/04/2014	110.8200	214.5100	166.2800
CADILLAC STATE #7	08/03/2014	113.7300	227.0000	173.0000
CADILLAC STATE #7	08/02/2014	107.1300	227.0000	169.0000
CADILLAC STATE #7	08/01/2014	105.1400	228.0000	155.0000
Monthly Average:		97.7145	227.1990	146.9100
CADILLAC STATE #7	07/31/2014	105.4300	231.0000	214.5100
CADILLAC STATE #7	07/30/2014	96.5900	241.0000	156.0000
CADILLAC STATE #7	07/29/2014	99.3300	248.0000	144.0000
CADILLAC STATE #7	07/28/2014	106.1100	269.0000	156.0000
CADILLAC STATE #7	07/27/2014	104.6700	229.1200	150.3000
CADILLAC STATE #7	07/26/2014	109.1300	233.0700	180.4000
CADILLAC STATE #7	07/25/2014	146.8500	230.8900	145.7100
CADILLAC STATE #7	07/24/2014	118.1900	215.4600	175.0400
CADILLAC STATE #7	07/23/2014	84.6300	180.2000	130.6200
CADILLAC STATE #7	07/22/2014	92.4900	177.4000	150.8000
CADILLAC STATE #7	07/21/2014	123.2100	190.8300	182.6400
CADILLAC STATE #7	07/20/2014	134.0500	155.0000	143.0000
CADILLAC STATE #7	07/19/2014	114.3500	189.2000	151.9700
CADILLAC STATE #7	07/18/2014	108.8400	228.5800	163.9600
CADILLAC STATE #7	07/17/2014	116.6700	202.1100	156.3400
CADILLAC STATE #7	07/16/2014	114.8800	195.4100	169.6000
CADILLAC STATE #7	07/15/2014	133.6100	196.3900	144.9500
CADILLAC STATE #7	07/14/2014	132.7400	200.7400	168.9200
CADILLAC STATE #7	07/13/2014	177.1900	333.5500	272.6700
CADILLAC STATE #7	07/12/2014	199.8300	326.3300	246.9500
CADILLAC STATE #7	07/11/2014	107.5100	330.4900	255.2800
CADILLAC STATE #7	07/10/2014	74.3500	350.9300	116.6800
CADILLAC STATE #7	07/09/2014	138.0400	312.0000	203.0000
CADILLAC STATE #7	07/08/2014	135.1300	319.0000	203.0000
CADILLAC STATE #7	07/07/2014	156.7500	315.9500	232.2000
CADILLAC STATE #7	07/06/2014	181.2800	332.9000	234.0000
CADILLAC STATE #7	07/05/2014	137.1200	339.0000	204.0000

Cadillac State #7
Production Data

CADILLAC STATE #7	07/04/2014	203.6400	467.3300	298.1000
CADILLAC STATE #7	07/03/2014	131.4700	504.4000	239.3100
CADILLAC STATE #7	07/02/2014	133.6800	642.4000	270.9400
CADILLAC STATE #7	07/01/2014	151.3000	332.0000	223.0000
Monthly Average:		128.0342	281.2800	189.8029
CADILLAC STATE #7	06/30/2014	152.8200	338.0000	222.0000
CADILLAC STATE #7	06/29/2014	148.8700	338.0000	221.0000
CADILLAC STATE #7	06/28/2014	155.3900	344.0000	238.0000
CADILLAC STATE #7	06/27/2014	160.3400	348.0000	240.0000
CADILLAC STATE #7	06/26/2014	168.9600	110.3200	244.5100
CADILLAC STATE #7	06/25/2014	175.1600	318.3500	263.0000
CADILLAC STATE #7	06/24/2014	187.7200	399.0000	251.0000
CADILLAC STATE #7	06/23/2014	156.1400	405.2100	223.7300
CADILLAC STATE #7	06/22/2014	167.5400	415.0800	281.3300
CADILLAC STATE #7	06/21/2014	140.2000	400.5200	248.2300
CADILLAC STATE #7	06/20/2014	122.1600	397.0000	244.8200
CADILLAC STATE #7	06/19/2014	156.2300	400.1200	257.4300
CADILLAC STATE #7	06/18/2014	167.4400	412.0000	241.0000
CADILLAC STATE #7	06/17/2014	169.1000	403.0000	258.0000
CADILLAC STATE #7	06/16/2014	161.7900	402.7400	287.4900
CADILLAC STATE #7	06/15/2014	168.8000	356.0000	261.0000
CADILLAC STATE #7	06/14/2014	185.5600	317.9700	236.6000
CADILLAC STATE #7	06/13/2014	131.6000	515.8100	185.6900
CADILLAC STATE #7	06/12/2014	212.9200	251.0000	222.0000
CADILLAC STATE #7	06/11/2014	100.0600	282.9800	270.7700
CADILLAC STATE #7	06/10/2014	247.9400	355.0000	254.0000
CADILLAC STATE #7	06/09/2014	176.2100	419.4700	225.1100
CADILLAC STATE #7	06/08/2014	193.7400	397.3200	214.5700
CADILLAC STATE #7	06/07/2014	140.1100	391.9500	222.6600
CADILLAC STATE #7	06/06/2014	148.1100	443.4700	186.8300
CADILLAC STATE #7	06/05/2014	182.5400	430.0600	217.7800
CADILLAC STATE #7	06/04/2014	187.7200	437.2100	225.3900
CADILLAC STATE #7	06/03/2014	178.9300	446.5200	230.9700
CADILLAC STATE #7	06/02/2014	172.0200	424.1900	232.0700
CADILLAC STATE #7	06/01/2014	334.5800	417.4400	217.7100
Monthly Average:		171.6900	377.2577	237.4897
CADILLAC STATE #7	05/31/2014	29.1500	348.0000	250.0000
CADILLAC STATE #7	05/30/2014	175.9100	346.0000	250.0000
CADILLAC STATE #7	05/29/2014	176.8700	331.0000	254.0000
CADILLAC STATE #7	05/28/2014	174.2000	342.0000	247.0000
CADILLAC STATE #7	05/27/2014	149.9000	332.4600	242.2200
CADILLAC STATE #7	05/26/2014	183.6800	334.0000	258.0000
CADILLAC STATE #7	05/25/2014	180.7700	328.0000	252.0000
CADILLAC STATE #7	05/24/2014	179.2400	325.0000	249.5500
CADILLAC STATE #7	05/23/2014	187.2500	319.0000	263.0000
CADILLAC STATE #7	05/22/2014	185.1800	312.0000	252.0000
CADILLAC STATE #7	05/21/2014	178.3900	303.0000	257.0000
CADILLAC STATE #7	05/20/2014	76.9100	90.0000	171.6600
CADILLAC STATE #7	05/19/2014	140.4800	200.0500	232.9500
CADILLAC STATE #7	05/18/2014	192.0200	303.0000	248.7600
CADILLAC STATE #7	05/17/2014	201.6600	279.0000	306.0000
CADILLAC STATE #7	05/16/2014	176.0400	246.0000	310.0000
CADILLAC STATE #7	05/15/2014	170.6500	168.1800	316.0000
CADILLAC STATE #7	05/14/2014	170.3800	206.0000	347.0000
CADILLAC STATE #7	05/13/2014	167.0700	185.0000	384.0000
CADILLAC STATE #7	05/12/2014	148.3600	219.0000	424.0000
CADILLAC STATE #7	05/11/2014	212.9500	204.0000	440.0000
CADILLAC STATE #7	05/10/2014	209.5000	165.0000	442.0000
CADILLAC STATE #7	05/09/2014	129.0500	192.0000	438.0000
CADILLAC STATE #7	05/08/2014	183.6500	261.0000	513.0000
CADILLAC STATE #7	05/07/2014	42.4000	57.0200	275.6200

Cadillac State #7
Production Data

CADILLAC STATE #7	05/06/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	05/05/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	05/04/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	05/03/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	05/02/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	05/01/2014	0.0000	0.0000	0.0000
Monthly Average:		129.7310	206.3132	245.9277
CADILLAC STATE #7	04/30/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	04/29/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	04/28/2014	0.0000	73.0000	0.0000
CADILLAC STATE #7	04/27/2014	105.8900	282.0000	31.0000
CADILLAC STATE #7	04/26/2014	208.4600	285.0000	316.0000
CADILLAC STATE #7	04/25/2014	185.4300	261.0000	319.0000
CADILLAC STATE #7	04/24/2014	199.0000	263.0000	332.0000
CADILLAC STATE #7	04/23/2014	172.5500	258.0000	300.0000
CADILLAC STATE #7	04/22/2014	184.8300	332.0000	322.0000
CADILLAC STATE #7	04/21/2014	214.5400	315.0000	346.0000
CADILLAC STATE #7	04/20/2014	213.0200	332.0000	344.0000
CADILLAC STATE #7	04/19/2014	204.0600	325.0000	361.0000
CADILLAC STATE #7	04/18/2014	201.8500	358.0000	380.0000
CADILLAC STATE #7	04/17/2014	218.2000	311.0000	354.0000
CADILLAC STATE #7	04/16/2014	211.0000	281.0000	370.0000
CADILLAC STATE #7	04/15/2014	232.7100	351.0000	385.0000
CADILLAC STATE #7	04/14/2014	264.7300	382.0000	397.0000
CADILLAC STATE #7	04/13/2014	250.4400	320.0000	348.0000
CADILLAC STATE #7	04/12/2014	193.7400	354.0000	420.0000
CADILLAC STATE #7	04/11/2014	274.1600	357.0000	367.0000
CADILLAC STATE #7	04/10/2014	243.7100	373.0000	349.8600
CADILLAC STATE #7	04/09/2014	239.5600	387.0000	406.7500
CADILLAC STATE #7	04/08/2014	216.1100	313.0000	370.0000
CADILLAC STATE #7	04/07/2014	222.9900	324.0000	391.0000
CADILLAC STATE #7	04/06/2014	236.1200	325.0000	378.0000
CADILLAC STATE #7	04/05/2014	134.6300	169.0000	384.0000
CADILLAC STATE #7	04/04/2014	162.9400	254.0000	250.0000
CADILLAC STATE #7	04/03/2014	227.8300	313.0000	402.0000
CADILLAC STATE #7	04/02/2014	238.8800	322.0000	434.0000
CADILLAC STATE #7	04/01/2014	361.8500	329.0000	414.0000
Monthly Average:		193.9743	284.9667	315.7203
CADILLAC STATE #7	03/31/2014	121.6600	298.0000	428.0000
CADILLAC STATE #7	03/30/2014	209.8800	291.0000	413.0000
CADILLAC STATE #7	03/29/2014	152.1200	269.0000	377.0000
CADILLAC STATE #7	03/28/2014	218.1600	279.0000	432.0000
CADILLAC STATE #7	03/27/2014	198.8800	222.0000	340.0000
CADILLAC STATE #7	03/26/2014	66.4300	160.0000	324.0000
CADILLAC STATE #7	03/25/2014	16.6100	0.0000	153.0000
CADILLAC STATE #7	03/24/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/23/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/22/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/21/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/20/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/19/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/18/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/17/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/16/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/15/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/14/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/13/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/12/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/11/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/10/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/09/2014	0.0000	0.0000	0.0000

Cadillac State #7
Production Data

CADILLAC STATE #7	03/08/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/07/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/06/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/05/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/04/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/03/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/02/2014	0.0000	0.0000	0.0000
CADILLAC STATE #7	03/01/2014	0.0000	0.0000	0.0000
Monthly Average:		31.7335	49.0000	79.5806

Affidavit of Fact

STATE OF TEXAS §

COUNTY OF MIDLAND §

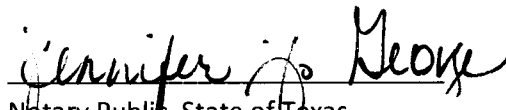
Affiant on oath swears that the following statements are true:

My name is Dylan C. Park. I am a Landman for COG Operating LLC. I am familiar with the ownership of the Cadillac State wells No.1 (API 30-015-40924), Cadillac State No. 2 (API 30-015-40923), Cadillac State No. 3 (API 30-015-41450), Cadillac State No. 4 (API 30-015-41451) all of which are situated in Section 15, Township 17 South, Range 29 East, Eddy County, New Mexico. I hereby confirm that the working interests and royalty interests in these wells are common.

Affiant:


Dylan C. Park

SUBSCRIBED AND SWORN TO before me on the 16th day of September, 2014.


Notary Public, State of Texas

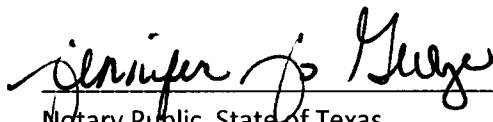
STATE OF TEXAS §

COUNTY OF MIDLAND §

This instrument was acknowledged before me on this 16th day of September, 2014

By Jennifer Jo George, Notary Public for the State of Texas.




Notary Public, State of Texas

Affidavit of Fact

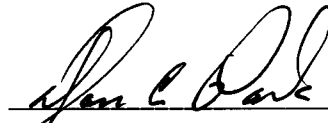
STATE OF TEXAS §

COUNTY OF MIDLAND §

Affiant on oath swears that the following statements are true:

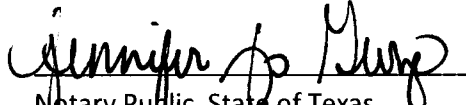
My name is Dylan C. Park. I am a Landman for COG Operating LLC. I am familiar with the ownership of the Cadillac State wells No. 5 (API 30-015-41452), Cadillac State No. 6 (API 30-015-41453), Cadillac State No. 7 (API 30-015-41456), Cadillac State No. 8 (API 30-015-41490) all of which are situated in Section 15, Township 17 South, Range 29 East, Eddy County, New Mexico. I hereby confirm that the working interests and royalty interests in these wells are common.

Affiant:



Dylan C. Park

SUBSCRIBED AND SWORN TO before me on the 16th day of September, 2014.



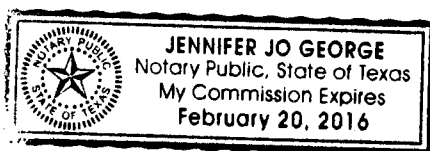
Notary Public, State of Texas

STATE OF TEXAS §

COUNTY OF MIDLAND §

This instrument was acknowledged before me on this 16th day of September 2014

By Jennifer Jo George, Notary Public for the State of Texas.





Notary Public, State of Texas

Lakewood Area

Tank Battery Operational Description

Test Method Allocation

Summary

The following is a description of the facility operations at a standard tank battery installed in the Lakewood area. The plan of development for this area includes the installation of one tank battery per half section. Each battery will be equipped to handle 4 producing wells from that half section.

Operational Description

1. Flowlines from producing wells terminate into the test/production header which serves as the inlet to the tank battery. From the header, one well can be put in test while the remaining wells are combined in the production header for separation and storage of produced fluids. The test/production header is illustrated in Figure 1 below. In this diagram, the shaded valves indicate a closed position. Therefore, this illustration shows well "1H" to be in test while the remaining wells are routed to the 2-Phase Separator. Using the valves in the header, any single well can be isolated from the remaining wells and placed into test.

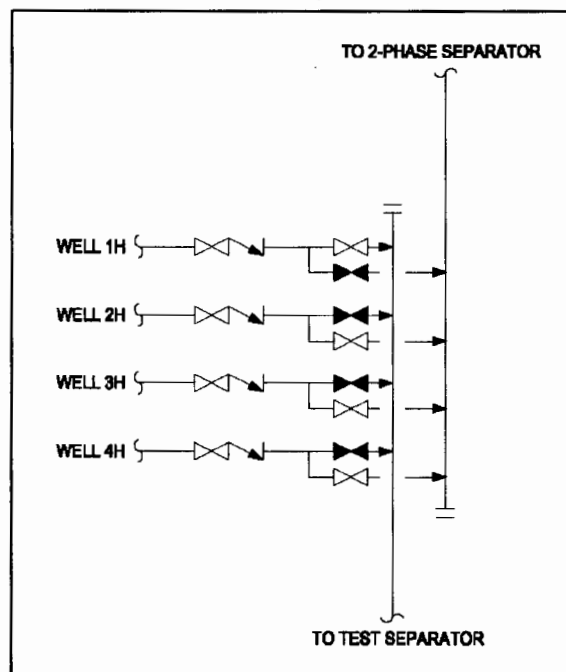


Figure 1: Test/Production Header Diagram

2. The test separator is a 3-phase horizontal separator used for measuring produced fluids from a given well. Separate meters are used for measuring oil, water, and gas from the production well. Turbine meters are used for measuring oil and water flow while an orifice meter is used

for measuring gas flow. Once the produced fluids have been metered, all three phases are recombined and routed to the 2-phase separator where the well is tied in with the bulk fluids from other wells. A diagram of the test separator is shown in Figure 2 below.

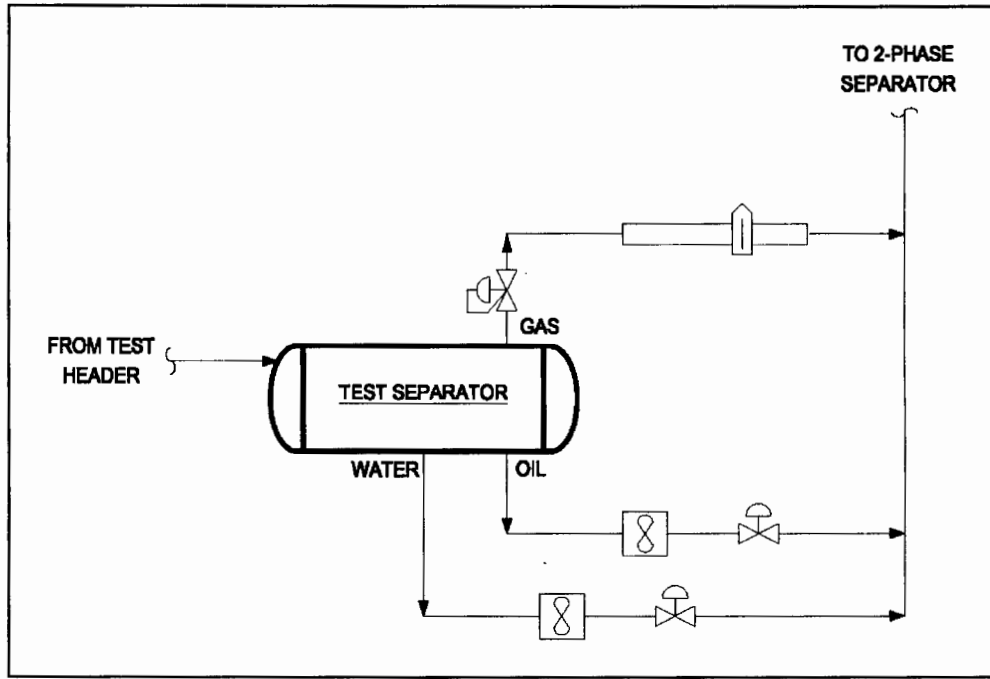


Figure 2: Test Separator with 3-Phase Metering

3. The test separator and associated metering devices have been sized for the expected range of fluid rates from the production wells. The sizing and calibration of this equipment ensures accurate measurement of produced fluids from a well in test. When a well is placed in test, it will remain in test for a minimum of 3 days. This allows adequate time for the well to level out and accurate daily production rates to be measured. Each well will be placed in test once a month at a minimum. Given the number of wells and the duration of well tests, it is likely that each well could be tested as often as 2-3 times per month. Allocation of co-mingled production will be based on average well tests taken during the previous month.
4. Fluids from the production header are routed to the 2-Phase Separator where gas and liquids are separated. Gas is sent directly to the gas sales system and liquids are sent to the FWKO for further separation. In addition to providing a means of bulk gas/liquid separation, this vessel also helps to alleviate slugs of fluid which enter the system and would otherwise disrupt the separation process.
5. Liquids from the 2-Phase Separator are sent to the Free Water Knock Out (FWKO). The primary function of this vessel is to provide sufficient retention time for oil and water to separate. Water from the FWKO is sent to water storage tanks. Oil from the FWKO is sent to the Heater-Treater for a final stage of polishing and water removal. Any gas that flashes off in this stage of separation is tied directly into the gas sales system.
6. Oil from the FWKO is routed to the Heater-Treater wherein heat is applied to help break any remaining emulsions and remove water from the oil stream. Oil from the Heater-Treater is sent

to the oil storage tanks. Water from the Heater-Treater is tied into the water line from the FWKO going to the storage tanks. Any gas that flashes off in this stage of separation is tied directly into the gas sales system.

7. Oil from the Heater-Treater is sent to 500 BBL oil tanks located on site. These tanks allow for storage of oil prior to sales through a pipeline LACT or trucking. Valves are installed on each tank to provide the ability to isolate a tank for sales or to further treat the fluids by circulating back through the separation process. Oil tanks are connected together with a common overflow line that serves to prevent spills caused by over running a single tank.
8. Water from the FWKO and Heater Treater is sent to 500 BBL water tanks located on site. These tanks provide water storage prior to being pumped into the salt water disposal (SWD) system. One water tank is used as the primary tank for water handling while the second tank provides overflow protection and operational flexibility. A transfer pump is connected to the water tanks and is operated automatically by the facility PLC based on the level of water in the tanks. This pump discharges into the SWD system which gathers and disposes of produced water.

Attachments

- Process Flow Diagram: Lakewood Area Standard Tank Battery

McMillan, Michael, EMNRD

From: Shapard, Craig, EMNRD
Sent: Wednesday, October 15, 2014 2:33 PM
To: McMillan, Michael, EMNRD
Subject: Empire: GL-Yeso; East

Mike,

Wells located U/L K 15 17S 29E are in Pool Empire; GL-Yeso; East

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