

DATE IN 9/4/2015	SUSPENSE	ENGINEER MAM	LOGGED IN 9/4/2015	TYPE CTB PLC E-TB	APP NO. DMA1524753523
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## 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]**

### [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 \_\_\_\_\_

Cimarex Energy Co. of Colorado - 162683 Wells:

Scoter 6 Federal 2H 30-015-39788  
 Scoter 6 Federal 3H 30-015-41819  
 Scoter 6 Federal 4H 30-015-42260  
 Scoter 6 Federal 5H 30-015-42273 (Spud 7/12/15)

### [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

### [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.

Aricka Easterling

Print or Type Name

*Aricka Easterling*

Signature

Regulatory Analyst

Title

9/3/15

Date

aeasterling@cimarex.com  
 e-mail Address

CTB  
PLC  
E-TB  
DMA1524753523

Pool  
- Cottonwood  
Bone Springs  
13367

- Cottonwood  
Bone Springs, Eagle  
96556

- Cottonwood  
Bone Springs (0)  
97444

RECEIVED  
SEP 11 2015  
SANTA FE

**Cimarex Energy Co.**

202 S Cheyenne Ave

Suite 1000

Tulsa, Oklahoma 74103-4346

Phone 918.585.1100

Fax 918.749.8059

RECEIVED OGD

2015 SEP -4 P



September 3, 2015

NMOCD

1220 South St. Francis Drive

Santa Fe, NM 87505

RE: Request to Commingle Oil Production

Scoter 6 Fed Com 2H API# 30-015-39788

Scoter 6 Federal 3H API# 30-015-41819

Scoter 6 Federal 4H API# 30-015-42260

Scoter 6 Federal 5H API# 30-015-42273

Pool: Cottonwood Draw; Bone Spring (97494)

Cottonwood Draw; Bone Spring (13367)

Cottonwood Draw; Bone Spring, East (96556)

Eddy County, New Mexico

Mr. McMillian:

Cimarex Energy Company respectfully requests approval to surface commingle oil production at the Scoter 6 Federal Battery. Scoter 6 Fed Com 2H & 4H produce from the Cottonwood Draw; Bone Spring (97494) , Scoter 6 Fed 3H produces from the Cottonwood Draw; Bone Spring (13367) and Scoter 6 Fed 5H, a recently completed well, will be completed in the Cottonwood Draw; B.S. E field.

The working, royalty and overriding interest owner are diverse and have been notified of this proposal.

Please contact me should you have any questions or need anything further.

Thank you in advance for your time.

Sincerely,

*Aricka Easterling*  
Aricka Easterling  
Regulatory Analyst

Enclosure



**Scoter 6 Federal Economic Justification**  
**Sec. 6-25S-27E**  
**Eddy County, NM**

**Pool/Lease Commingling proposal for leases: NMNM100332 & NMNM110348**

<b>Federal Lease</b>	<b>NMNM100332</b>	<b>Royalty Rate 12-1/2%</b>	
<b>Well Name</b>	<b>BOPD</b>	<b>Oil Gravity @60 deg</b>	<b>Value/bbl</b>
Scoter 6 Fed 2H	68.38	48	45
Scoter 6 Fed 3H	84.1	48	45

<b>Federal Lease</b>	<b>NMNM110348</b>	<b>Royalty Rate 12-1/2%</b>	
<b>Well Name</b>	<b>BOPD</b>	<b>Oil Gravity @60 deg</b>	<b>Value/bbl</b>
Scoter 6 Fed 4H	264.66	48	45
Scoter 6 Fed 5H	spud well 7/12/15		

**Economic combined production**

<b>Federal Lease</b>	<b>NMNM100332</b>	<b>Royalty Rate 12-1/2%</b>	
<b>Federal Lease</b>	<b>NMNM110348</b>	<b>Royalty Rate 12-1/2%</b>	
<b>Facility Name</b>	<b>BOPD</b>	<b>Oil Gravity @60 deg</b>	<b>Value/bbl</b>
Scoter 6 Federal	417.14	48	45
Com Battery			

Signed: Aricka Easterling  
Printed Name: Aricka Easterling  
Title: Regulatory Analyst  
Phone: 918-560-7060  
Date: 9/3/15

## DISTRICT I

1525 N. French Dr., Hobbs, NM 88240

## DISTRICT II

1301 W. Grand Avenue, Artesia, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1229 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate  
District Office

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-39788	Pool Code <del>30-015</del> 97494	Pool Name Cottonwood Draw; Bone Spring Wildest
Property Code 35351	Property Name SCOTER "6" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3345'

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	6	25 S	27 E		810	SOUTH	330	EAST	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
LOT 1	6	25 S	27 E		340	NORTH	509	EAST	EDDY
Dedicated Acres 159.09	Joint or Infill	Consolidation Code	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

LOT 4	LOT 3	LOT 2	LOT 1	340 509 B.H.
LOT 5				
LOT 6				
LOT 7				

**SURFACE LOCATION**  
 Lat - N 32°09'14.795"  
 Long - W 104°13'19.484"  
 NMSPCE- N 419818.2  
 E 575767.2  
 (NAD-83)

3343.6'  
330'  
3339.7'  
3341.6'

**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 an 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.  
 Aricka Easterling 11/7/13  
 Signature: Aricka Easterling Date:  
 Printed Name: aeasterling@cimarex.com  
 Email 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.  
 Gary L. Jones 11/20/10  
 Date Surveyed: November 20, 2010  
 Signature & Seal of Professional Surveyor  
 Certificate No. Gary L. Jones 7977  
 BASIN SURVEYS 23705

DISTRICT I  
1825 N. Franch Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

**NM OIL CONSERVATION**  
For District  
Artesia District  
Submit one copy to the appropriate  
District Office  
JUN 9 6 2015

**RECEIVED**

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

☐ AMENDED REPORT

API Number <b>30-015-41819</b>	Pool Code <b>97494</b>	Pool Name <b>Cottonwood Draw; Bone Spring (O)</b>
Property Code <b>40249</b>	Property Name <b>SCOTER 6 FEDERAL</b>	Well Number <b>3H</b>
GRID No. <b>162683</b>	Operator Name <b>CIMAREX ENERGY CO. OF COLORADO</b>	Elevation <b>3308'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>0</b>	<b>6</b>	<b>25 S</b>	<b>27 E</b>		<b>330</b>	<b>SOUTH</b>	<b>2190</b>	<b>EAST</b>	<b>EDDY</b>

**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
<b>B</b>	<b>6</b>	<b>25 S</b>	<b>27 E</b>		<b>344</b>	<b>NORTH</b>	<b>2007</b>	<b>EAST</b>	<b>EDDY</b>

Dedicated Acres <b>159.35</b>	Joint or Infill	Consolidation Code	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.**

<p>N 424249.4 E 570831.7 (NAD-83)</p>	<p>N 424267.1 E 573349.8 (NAD-83)</p>	<p>344' B.H.</p>	<p>N 424278.5 E 576001.6 (NAD-83)</p>
<p>2007'</p>			
<p>NMNM100332</p>			
<p>N 421801.1 E 570838.0 (NAD-83)</p>		<p>4625.6'</p>	<p>N 421662.6 E 576058.1 (NAD-83)</p>
<p>3322.6' 3314.4'</p>			
<p>330' S.L.</p>			
<p>2190'</p>			
<p>N 418952.9 E 570845.4 (NAD-83)</p>	<p>N 418982.1 E 573467.1 (NAD-83)</p>		<p>N 419012.2 E 576114.5 (NAD-83)</p>
<p>3298.8' 3298.5'</p>			

**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.

Hope Knauls 6-23-15  
Signature Date

Hope Knauls  
Printed Name  
Hknauls@cimarex.com  
Email 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.

Date Surveyed  
Signature  
Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977  
BASIN SURVEYS 28475

DISTRICT I  
1675 N. French Dr., Santa Fe, NM 87505  
DISTRICT II  
1361 W. Grand Avenue, Arroyo, NM 87510  
DISTRICT III  
1600 Rio Arriba Rd., Arroyo, NM 87510  
DISTRICT IV  
1206 N. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102

Revised July 16, 2010

Submit one copy to appropriate  
District Office

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

☐ AMENDED REPORT

API Number <b>30-015-42260</b>	Pool Code <b>96674</b>	Property Name <b>Cottonwood B.S.</b> <b>Bone Spring Wildcat</b>
Well Number <b>4H</b>	Operator Name <b>CIMAREX ENERGY CO. OF COLORADO</b>	Elevation <b>3299'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
N	6	25 S	27 E		330	SOUTH	1900	WEST	EDDY

**Bottom Hole Location If Different From Surface**

UL or lot No.	Section	Township	Range	Lot 1/4	Feet from the	North/South line	Feet from the	East/West line	County
3	6	25 S	27 E		330	NORTH	1980	WEST	EDDY

Dedicated Acres <b>159.21</b>	Joint or Infill	Consolidation Code	Order No. <b>11739</b> <b>3-26</b>
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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

N 424249.4 E 570831.7 (NAD-83)	1900'	N 424267.1 E 573349.8 (NAD-83)	N 424278.5 E 576001.6 (NAD-83)
<b>PROPOSED BOTTOM HOLE LOCATION</b> Lat - N 32°09'35.55" Long - W 104°13'53.82" NAD83 - N 423833.4 E 572812.0 (NAD-83)			
N 421601.1 E 570838.0 (NAD-83)	4331.0'	N 421662.6 E 576058.1 (NAD-83)	
<b>SURFACE LOCATION</b> Lat - N 32°09'09.74" Long - W 104°13'54.66" NAD83 - N 418304.0 E 572743.0 (NAD-83)			
N 418352.8 E 570845.4 (NAD-83)	1900'	N 418382.1 E 573467.1 (NAD-83)	N 418012.2 E 578114.5 (NAD-83)

**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 of this location pursuant to a contract with an owner of land or mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Signature: *[Signature]* Date: **2-5-14**

Terri Stathern  
Printed Name  
tstathern@cimarex.com  
Email 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.

Date Surveyed: **2/5/14**  
Signature: *[Signature]*  
Professional Surveyor

Certificate No. Gary L. Jones 7977  
BASIN SURVEYS 28476

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised July 16, 2010  
Submit one copy to appropriate District Office  
**RECEIVED**  
JUN 26 2015  
AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30015-42273</b>	Pool Code <b>97494</b>	Pool Name <b>Cottonwood Draw; Bone Spring (O)</b>
Property Code <b>40249</b>	Property Name <b>SCOTER 6 FEDERAL</b>	Well Number <b>5H</b>
GRID No. <b>162683</b>	Operator Name <b>CIMAREX ENERGY CO. OF COLORADO</b>	Elevation <b>3271'</b>

**Surface Location**

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>6</b>	<b>25 S</b>	<b>27 E</b>		<b>330</b>	<b>SOUTH</b>	<b>660</b>	<b>WEST</b>	<b>EDDY</b>

**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
<b>4</b>	<b>6</b>	<b>25 S</b>	<b>27 E</b>		<b>330</b>	<b>NORTH</b>	<b>660</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
<b>159.17</b>			

**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**

	<b>PROPOSED BOTTOM HOLE LOCATION</b> Lat - N 32°09'55.47" Long - W 104°14'09.17" NMSPCE - N 423924.2 E 571492.3 (NAD-83)	N: 424267.1 E: 573349.8	N: 424278.5 E: 576001.6
	<b>SURFACE LOCATION</b> Lat - N 32°09'09.61" Long - W 104°14'09.08" NMSPCE - N 419290.2 E 571504.0 (NAD-83)	N: 419982.1 E: 573467.1	N: 419012.2 E: 576114.5

**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.

*Hope Knauls* 6-23-15  
Signature Date

Hope Knauls  
Printed Name

hknauls@cimarex.com  
Email 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.

Date Surveyed  
Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977

**Basin Survey S 28477**

APPLICATION FOR POOL/LEASE COMMINGLING

Proposal for Scoter 6 Fed :

*CTB*

Cimarex Energy Co. is requesting approval for PLC :

**Federal Lease NMNM100332**

Well Name	Location	API #	Pool	BOPD	Gravities
Scoter 6 Federal 2H	SESE	30-015-39788	97494	68.38	48
Scoter 6 Federal 3H	SWSE	30-015-41819	13367	84.1	48

**Federal Lease NMNM110348**

Well Name	Location	API #	Pool	BOPD	Gravities
Scoter 6 Federal 4H	SESW	30-015-42260	97494	264.66	48
Scoter 6 Fed 5H Spud well 7/12/15 (well not on production)	SWSW	30-015-42273	96556		

The attached map shows the federal leases and well locations in Section 6-25S-27E .

The BLM's interest in all wells is common. Lease NMNM100332 royalty rate is 12.5% and involves 478.44 acres, lease NMNM110348 royalty rate is 12.5% and involves 310.91 acres.

**Oil Metering:**

The central tank battery is located on the well pad for the Scoter 6 Federal 2H located in Sec. 6-25S-27 federal lease NMNM100332 in Eddy County, New Mexico. The production from all wells will come to a common production header with isolation line to route each well's production.

The Scoter 6 Federal Tank Battery has oil tanks at the central tank battery that all wells will utilize. tanks. The water from the well on test flows to the 500 bbl produced water tank, along with the water from the well that was not on test.

Oil production will be allocated on a daily basis based from the turbine meters located downstream of the heater treater. The meters are turbine meter (#'s 309588428P, 309775190P, 309775191P,). These meters will be proven, as per API, NMOCD, and BLM specifications, when installed, once per month for



the first 3 months (to establish a consistent repeatability factor), and then quarterly thereafter, the factor obtained will be used to allocate the production volumes

**Process and Flow Descriptions:**

The flow of production is shown in detail on enclosed facilities diagram and map, which shows the lease boundaries. Communitization agreement boundaries, location of wells, facility. The commingling of this production is the most effective economical means of producing the reserves and will not result in reduced royalty or improper measurement of production. The proposed commingling will reduce operating expenses as well as reduce the surface facility footprint and overall emissions.

Cimarex Energy Co. understands the requested approval will not constitute the granting of any right-of-way or construction rights not granted by the lease instrument.

Working, royalty, and overriding interest owners have been notified of this proposal via certified mail (see attached).



**Scoter 6 Federal 2H, 3H, 4H & 5H**  
Sec. 6, T25S, R27W  
Eddy County, NM

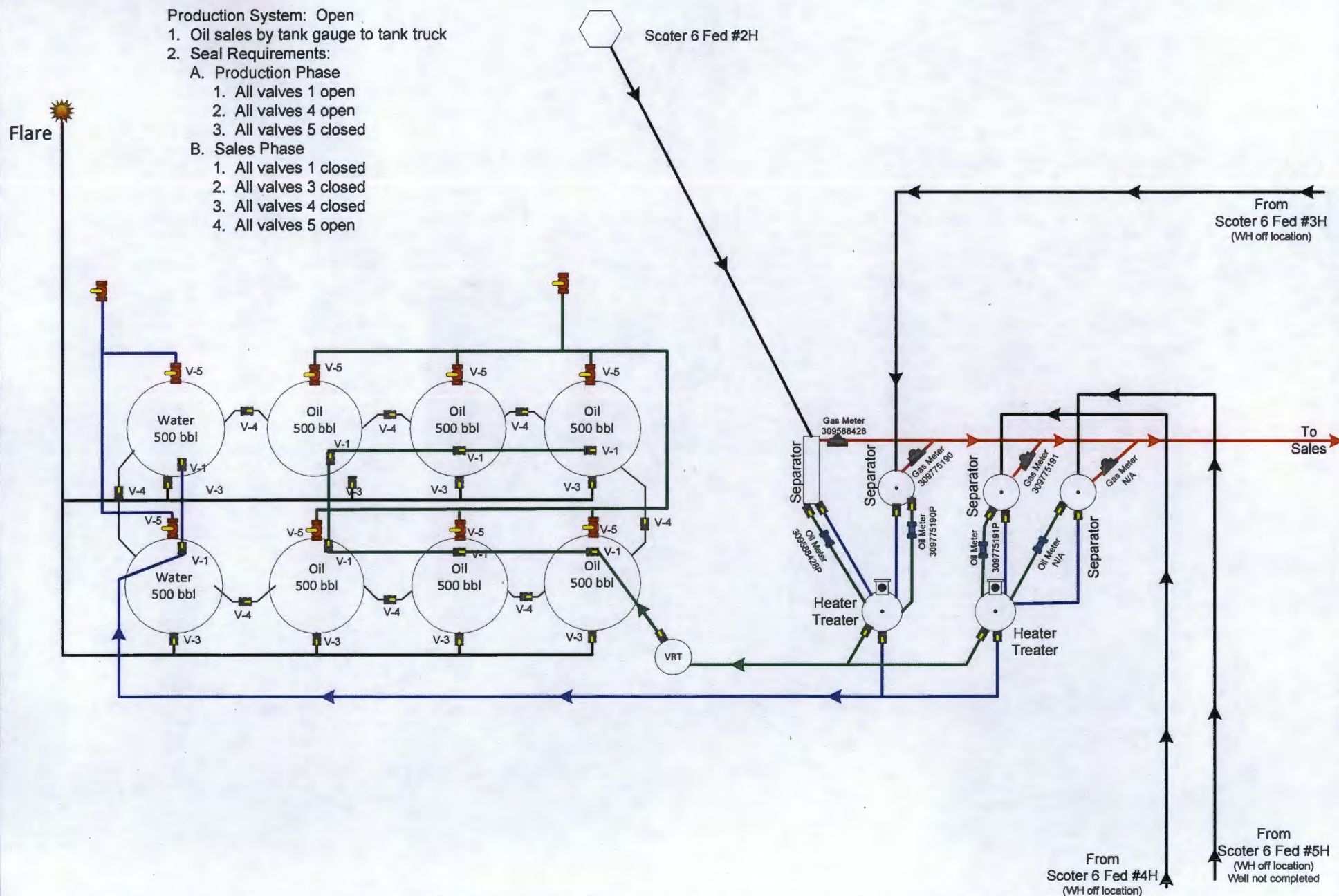
- Production System: Open  
1. Oil sales by tank gauge to tank truck  
2. Seal Requirements:

A. Production Phase

1. All valves 1 open
2. All valves 4 open
3. All valves 5 closed

B. Sales Phase

1. All valves 1 closed
2. All valves 3 closed
3. All valves 4 closed
4. All valves 5 open





# LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For:	Cimarex Energy	Sample:	Sta. # NCP9588428
	Attention: Gary Greenwood	Identification:	Scoter 6 Fed. Com. 2H
	600 N. Marienfeld, Suite 600	Company:	Cimarex Energy
	Midland, Texas 79701	Lease:	
		Plant:	

Sample Data:	Date Sampled	6/11/2015	11:00 AM
	Analysis Date	6/23/2015	
	Pressure-PSIA	91	Sampled by: C. Evans
	Sample Temp F	78.7	Analysis by: Vicki McDaniel
	Atmos Temp F	78	

H2S = 0  
H2O = lbs/MMCF  
Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.000	
Nitrogen	N2	1.688	
Carbon Dioxide	CO2	0.266	
Methane	C1	77.831	
Ethane	C2	11.402	3.042
Propane	C3	5.443	1.496
I-Butane	IC4	0.646	0.211
N-Butane	NC4	1.588	0.499
I-Pentane	IC5	0.334	0.122
N-Pentane	NC5	0.358	0.129
Hexanes Plus	C6+	<u>0.444</u>	<u>0.192</u>
		100.000	5.691

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1248.7	Calculated	0.7291
At 14.65 WET	1226.9		
At 14.696 DRY	1252.6		
At 14.696 WET	1231.3	Molecular Weight	21.1160
At 14.73 DRY	1255.5		
At 14.73 Wet	1233.8		

Test Method GPA 2261-95

Calculations based on GPA 2145-09



# LABORATORY PERMIANLS

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy  
Attention: Gary Greenwood  
600 N. Marienfeld, Suite 600  
Midland, Texas 79701

Sample: Sta. # NCW0023051  
Identification: Scoter 6 Fed. 3H  
Company: Cimarex Energy  
Lease:  
Plant:

Sample Data: Date Sampled 6/11/2015 10:00 AM  
Analysis Date 6/23/2015  
Pressure-PSIA 114  
Sample Temp F 77.2  
Atmos Temp F 78

Sampled by: C. Evans  
Analysis by: Vicki McDaniel

H2S = 0  
H2O = lbs/MMCF  
Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S	0.000	
Nitrogen	N2	1.713	
Carbon Dioxide	CO2	0.249	
Methane	C1	78.702	
Ethane	C2	11.285	3.010
Propane	C3	4.987	1.370
I-Butane	IC4	0.574	0.187
N-Butane	NC4	1.438	0.452
I-Pentane	IC5	0.302	0.110
N-Pentane	NC5	0.330	0.119
Hexanes Plus	C6+	<u>0.420</u>	<u>0.182</u>
		100.000	5.431

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1233.0	Calculated	0.7190
At 14.65 WET	1211.4		
At 14.696 DRY	1236.8		
At 14.696 WET	1215.7	Molecular Weight	20.8243
At 14.73 DRY	1239.6		
At 14.73 Wet	1218.2		

Test Method GPA 2261-95

Calculations based on GPA 2145-09



**LABORATORY SERVICES**  
Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy  
Attention: Mark Cummings  
600 N. Marienfeld, Suite 600  
Midland, Texas 79701

Sample: Sta. # NCW9775191  
Identification: Scoter 6 Fed. 4H  
Company: Cimarex Energy  
Lease:  
Plant:

Sample Data: Date Sampled 1/5/2015 1:50 PM  
Analysis Date 1/8/2015  
Pressure-PSIA 119.9  
Sample Temp F 67.9  
Atmos Temp F 80

Sampled by: T. Lewis  
Analysis by: Vicki McDaniel

H<sub>2</sub>S = 0

#### Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H <sub>2</sub> S	0.000	
Nitrogen	N <sub>2</sub>	1.241	
Carbon Dioxide	CO <sub>2</sub>	0.290	
Methane	C <sub>1</sub>	71.491	
Ethane	C <sub>2</sub>	15.181	4.050
Propane	C <sub>3</sub>	7.880	2.165
I-Butane	IC <sub>4</sub>	0.853	0.278
N-Butane	NC <sub>4</sub>	1.986	0.625
I-Pentane	IC <sub>5</sub>	0.325	0.119
N-Pentane	NC <sub>5</sub>	0.325	0.118
Hexanes Plus	C <sub>6</sub> +	<u>0.428</u>	<u>0.185</u>
		100.000	7.539

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1330.9	Calculated	0.7769
At 14.65 WET	1307.7		
At 14.696 DRY	1335.0		
At 14.696 WET	1312.3	Molecular Weight	22.5016
At 14.73 DRY	1338.1		
At 14.73 Wet	1315.0		

Test Method GPA 2261-95

Calculations based on GPA 2145-09

<b>Well_Name:</b>	<b>SCOTER 6 FED COM # 002</b>	<b>API:</b>	<b>3001539788</b>
Location:	P-6-25.0S-27E 810 FSL 330 FEL		
Lat:	32.15408972	Long:	-104.222074
Operator Name:	CIMAREX ENERGY CO. OF COLORADO	County:	Eddy
Land Type:	Federal	Well Type:	Oil
Spud Date:	6/27/2013	Plug Date:	
Elevation GL:	3345	Depth TVD:	0

**Year: 2014**

**Pool Name:** COTTONWOOD DRAW; BONE SPRING (O)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	3823	20718	3437	30	3823	20718
July	3639	19606	3026	31	7462	40324
August	3235	20355	2947	31	10697	60679
September	1811	9810	1440	20	12508	70489
October	3325	16832	2251	31	15833	87321
November	2112	9866	1172	28	17945	97187
December	2958	14163	2131	28	20903	111350

**Year: 2015**

**Pool Name:** COTTONWOOD DRAW; BONE SPRING (O)

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	1313	7127	569	31	22216	118477
February	1008	10965	770	28	23224	129442
March	675	8366	467	31	23899	137808
April	541	8078	355	30	24440	145886
May	0	0	0	0	24440	145886
June	0	0	0	0	24440	145886
July	0	0	0	0	24440	145886
August	0	0	0	0	24440	145886
September	0	0	0	0	24440	145886
October	0	0	0	0	24440	145886
November	0	0	0	0	24440	145886
December	0	0	0	0	24440	145886

<b>Well_Name:</b>	<b>SCOTER 6 FEDERAL # 003H</b>	<b>API:</b>	<b>3001541819</b>
<b>Location:</b>	O-6-25.0S-27E 330 FSL 2190 FEL		
<b>Lat:</b>	32.15271	<b>Long:</b>	-104.2280826
<b>Operator Name:</b>	CIMAREX ENERGY CO. OF COLORADO	<b>County:</b>	Eddy
<b>Land Type:</b>	Federal	<b>Well Type:</b>	Oil
<b>Spud Date:</b>	3/2/2014	<b>Plug Date:</b>	
<b>Elevation GL:</b>	3308	<b>Depth TVD:</b>	7319

**Year: 2014**

**Pool Name: COTTON DRAW;BONE SPRING**

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	12209	18472	9899	20	12209	18472
May	17337	76186	14052	31	29546	94658
June	8802	50307	7336	30	38348	144965
July	7107	41019	5683	31	45455	185984
August	5803	35236	4771	31	51258	221220
September	2705	17333	2110	20	53963	238553
October	6112	23672	3512	31	60075	262225
November	4244	20816	2340	28	64319	283041
December	4818	21058	3390	27	69137	304099

**Year: 2015**

**Pool Name: COTTON DRAW;BONE SPRING**

Month	Oil(BBLS)	Gas(MCF)	Water(BBLS)	Days Produced	Accum. Oil(BBLS)	Accum. Gas(MCF)
January	4415	22249	3117	31	73552	326348
February	2963	19605	2547	28	76515	345953
March	3321	22777	2575	31	79836	368730
April	2831	21938	1681	30	82667	390668
May	0	0	0	0	82667	390668
June	0	0	0	0	82667	390668
July	0	0	0	0	82667	390668
August	0	0	0	0	82667	390668
September	0	0	0	0	82667	390668
October	0	0	0	0	82667	390668
November	0	0	0	0	82667	390668
December	0	0	0	0	82667	390668

<b>Well_Name:</b>	<b>SCOTER 6 FEDERAL # 004H</b>	<b>API:</b>	<b>3001542260</b>
<b>Location:</b>	N-6-25.0S-27E 330 FSL 1900 FWL		
<b>Lat:</b>	32.152678	<b>Long:</b>	-104.2318025
<b>Operator Name:</b>	CIMAREX ENERGY CO. OF COLORADO	<b>County:</b>	Eddy
<b>Land Type:</b>	Federal	<b>Well Type:</b>	Oil
<b>Spud Date:</b>	10/20/2014	<b>Plug Date:</b>	
<b>Elevation GL:</b>	3299	<b>Depth TVD:</b>	7307

<b>Year:</b>	<b>2014</b>					
<b>Pool Name:</b>	COTTONWOOD DRAW; BONE SPRING (O)					
<b>Month</b>	<b>Oil(BBLS)</b>	<b>Gas(MCF)</b>	<b>Water(BBLS)</b>	<b>Days Produced</b>	<b>Accum. Oil(BBLS)</b>	<b>Accum. Gas(MCF)</b>
January	0	0	0	0	0	0
February	0	0	0	0	0	0
March	0	0	0	0	0	0
April	0	0	0	0	0	0
May	0	0	0	0	0	0
June	0	0	0	0	0	0
July	0	0	0	0	0	0
August	0	0	0	0	0	0
September	0	0	0	0	0	0
October	0	0	0	0	0	0
November	0	0	0	0	0	0
December	16600	26092	18129	25	16600	26092

<b>Year:</b>	<b>2015</b>					
<b>Pool Name:</b>	COTTONWOOD DRAW; BONE SPRING (O)					
<b>Month</b>	<b>Oil(BBLS)</b>	<b>Gas(MCF)</b>	<b>Water(BBLS)</b>	<b>Days Produced</b>	<b>Accum. Oil(BBLS)</b>	<b>Accum. Gas(MCF)</b>
January	23818	42656	11173	31	40418	68748
February	20567	59372	14408	28	60985	128120
March	19315	85376	18485	31	80300	213496
April	13746	82261	19592	30	94046	295757
May	0	0	0	0	94046	295757
June	0	0	0	0	94046	295757
July	0	0	0	0	94046	295757
August	0	0	0	0	94046	295757
September	0	0	0	0	94046	295757
October	0	0	0	0	94046	295757
November	0	0	0	0	94046	295757
December	0	0	0	0	94046	295757



**Scoter 6 Federal Tank Battery Commingle  
Eddy County, NM**

<b>Name</b>	<b>Address</b>	<b>City</b>	<b>State</b>	<b>Zip</b>	<b>USPS Certified mail receipt #</b>
AMERICAN ENERGY NON-OP LLC	PO BOX 13580	OKLAHOMA CITY	OK	73113	7014 0510 0001 2310 8854
CHEVRON USA INC	PO BOX 730436	DALLAS	TX	75373-0436	7014 0511 0001 2310 8861
DAVID H ESSEX	PO BOX 50577	MIDLAND	TX	79710	7014 0510 0001 2310 8878
ICA ENERGY INC	PO BOX 233	ODESSA	TX	79760-0233	7014 0510 0001 2310 8885
LONGHORN PARTNERS	PO BOX 1973	MIDLAND	TX	79702	7014 0510 0001 2310 8892
MARSHALL & WINSTON INC	PO BOX 50880	MIDLAND	TX	79710-0880	7014 0510 0001 2310 8908
MBOE INC	4925 GREENVILLE AVE STE 915	DALLAS	TX	75206	7014 0510 0001 2310 8915
MICHAEL D HAYES	3608 MEADOWRIDGE LANE	MIDLAND	TX	79707	7014 0510 0001 2310 8922
ROYALTY MANAGEMENT PROGRAM	PO BOX 5810 TA	DENVER	CO	80217-5810	
STRYKER ENERGY NON-OP LLC	PO BOX 53488	HOUSTON	TX	77052	7014 0510 0001 2310 8939
TLW INVESTMENTS LLC	PO BOX 301535	DALLAS	TX	75303-1535	7014 2120 0004 2741 4533

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMNM100332

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
SCOTER 6 FEDERAL BATTERY

2. Name of Operator

CIMAREX ENERGY COMPANY

Contact: ARICKA EASTERLING

E-Mail: aeasterling@cimarex.com

9. API Well No.

3a. Address

202 S CHEYENNE AVE, SUITE 1000  
TULSA, OK 74103

3b. Phone No. (include area code)

Ph: 918-560-7060

10. Field and Pool, or Exploratory  
COTTONWOOD DRAW; BS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 6 T25S R27E

11. County or Parish, and State

EDDY COUNTY, NM

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Cimarex Energy Co. respectfully requests approval to Surface Commingle oil production on the Scoter 6 Fed 2H (API# 30-015-39788), Scoter 6 Fed 3H (API# 30-015-41819), Scoter 6 Fed 4H (API# 30-015-42260), and Scoter 6 Fed 5H (recently completed well, API# 30-015-42273) at the Scoter 6 Federal Battery.

Please see attached application, economic justification, and other important information regarding this commingle request.

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #315505 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) ARICKA EASTERLING

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/03/2015

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***